



Mr. Mark Verhey  
Humboldt County Health Department  
Division of Environmental Health  
100 H Street, Suite 100  
Eureka, California 95501

May 24, 2006

**Re: Second Quarter 2006 Groundwater Monitoring Report  
Elliott's Service Center (former)  
761 Eel River Drive, Loleta, CA  
HCDEH LOP No. 12210  
Blue Rock Project No. NC-2**

Dear Mr. Verhey,

This report presents the results of the second quarter 2006 groundwater monitoring activities at former Elliott's Service Center, 761 Eel River Drive, Loleta, Humboldt County, California (site) (Figure 1), and was prepared for Mr. Ken Elliott by Blue Rock Environmental, Inc. (Blue Rock).

### **Background**

#### Site Description

The site is located on the eastside of the Eel River Drive on the western side of the unincorporated town of Loleta, California (Figure 1). The site is relatively flat and slopes gently to the west. The site is surrounded by residential properties to the north, east, and south. The west side of the property is primarily farmland with dispersed residences.

#### UST History

The service station was built in 1927 and has been owned and operated by several different parties until Mr. Elliot purchased the property from the Bank of Loleta in 1989. Since Mr. Elliot purchased the property, the site has operated as Elliott's Service Center, which retails gasoline and services automobiles.

On December 18, 1989, one 1,000-gallon gasoline underground storage tank (UST) (Tank #1), one 250-gallon diesel UST (Tank #2), and one 2,000-gallon gasoline UST (Tank #3) were removed from a common excavation, and one 550-gallon diesel UST (Tank #4) was removed from a separate excavation (Figure 2). The tanks were removed from the site at the locations shown on Figure 2. Alpha Construction of Eureka, California performed the tank removal. Mr. Kevin Metcalfe of the Humboldt County Division of Environmental Health (HCDEH) observed the tank removal. Jim Roby, from Alpha Construction, collected five soil samples and two water samples from the excavations. The depths of the soil samples were between 6 and 8 feet bgs. Mr. Metcalfe noted that groundwater was present in the excavations at a depth of approximately 8 feet bgs. Laboratory analysis of the samples found petroleum hydrocarbons (gasoline range) in

the soil and groundwater samples collected from both excavations. Upon removal of the tanks, Mr. Elliott replaced the fuel system with the single 5,000-gallon aboveground storage tank (AST) currently located onsite and used to dispense fuel.

#### Summary of Investigation Activities

Subsurface investigation has been underway at the site since 1996. A total of approximately 11 temporary borings have been drilled for the purpose of soil and groundwater characterization. A total of 10 shallow monitoring wells (MW-1 through MW-10) have been installed at the site. The locations of all investigation points are shown on Figure 2. Well construction data are included in Table 1, cumulative monitoring well groundwater elevations and sample data are included in Table 2, and intrinsic bioremediation data are included in Table 3.

#### Summary of Petroleum Type

The type of petroleum which appears to have been released to the subsurface from the former sources consists of gasoline range hydrocarbons. Specific compounds or compound groups which have been consistently detected include TPHg, BTEX, and MTBE. Other fuel oxygenates and TPHd have also been detected at the site.

#### Summary of Hydrogeology

The subsurface consists mostly of elastic silt (MH) and silt (ML) to a depth of at least 25 feet bgs (the greatest depth explored). Groundwater is generally first encountered and stabilizes around depths of 12 to 17 feet bgs. Groundwater elevations fluctuate with seasonal precipitation - rising after the winter rains begin and falling after the rains cease. Annual groundwater elevations fluctuate up to approximately four feet. Despite the seasonal fluctuations in groundwater elevations, flow direction is consistently to the west-southwest at gradients on the order of 0.01 to 0.04 ft/ft.

#### Summary of Sorbed-Phase Impacts

The vertical and lateral extent of sorbed-phase gasoline hydrocarbons is well understood. In general, residual gasoline hydrocarbons in soil, remaining after the remedial excavation in 2003, extend westward from the west wall of the excavation. The maximum residual sorbed-phase concentrations are: 200 mg/kg TPHg, 0.21 mg/kg benzene, and 0.1 mg/kg MTBE. Following the remedial excavation, Clearwater Group, Inc. (Clearwater) estimated that only 21 lbs of TPHg remained in the sorbed-phase.

#### Summary of Dissolved-Phase Impacts

The extent of residual dissolved-phase gasoline hydrocarbons is also well understood. Concentrations are generally greatest in wells MW-2 and MW-4, which are located immediately downgradient of the former USTs. The most recent maximum dissolved-phase concentrations are: 16,000 µg/L TPHg, 22 µg/L benzene, and 97 µg/L MTBE (February 2006). Historical monitoring data since 2000. The plume does not significantly extend off-site.

#### Summary of Previous Feasibility Testing and Remedial Activities

Previous consultants have demonstrated that the site subsurface is conducive to natural attenuation (please refer to Clearwater's *Corrective Action Plan Addendum, Natural Attenuation Feasibility Study, and Site Conceptual Model Report* dated January 30, 2003).

#### Summary of Remediation

In December 2003, Clearwater supervised Felt Mountain Construction of Corning, California excavate 613 tons of petroleum impacted soil located in the vicinity of the former UST fuel system (Figure 2). Based on mass calculations, Clearwater estimated that approximately 323 lbs of sorbed-phase TPHg were removed during remedial excavation activities. Remaining sorbed-phase TPHg was calculated at approximately 21 lbs. This represents over a 93% reduction of sorbed-phase TPHg mass. Remedial activities are detailed in Clearwater's *Remedial Report of Findings*, dated December 31, 2003.

### **Groundwater Monitoring Field and Laboratory Activities**

#### Groundwater Monitoring Activities

On May 2, 2006, all ten wells (MW-1 through MW-10) were gauged and select wells were monitored (Table 4).

Prior to sampling, an electronic water level indicator was used to gauge depth to water in each well, accurate to within  $\pm 0.01$ -foot. All wells were checked for the presence of light non-aqueous phase liquid (LNAPL) petroleum prior to purging. No measurable thicknesses of LNAPL were observed on groundwater in any of the wells. Dissolved oxygen measurements were collected to monitor the effectiveness of the dissolved-phase hydrocarbon cleanup.

In preparation for sampling, the wells were purged of groundwater until sampling parameters (temperature, pH, and conductivity) stabilized.

Following recovery of water levels to approximately 80% of their static levels, groundwater samples were collected from the wells using disposable polyethylene bailers and transferred to laboratory supplied containers. Sample containers were labeled, documented on a chain-of-custody form, and placed on ice in a cooler for transport to the project laboratory.

Purging instruments were cleaned between use by an Alconox® wash followed by double rinse in clean tap water to prevent cross-contamination. Purge and rinseate water was stored on-site in labeled 55-gallon drums pending future removal and disposal.

Groundwater monitoring and well purging information is presented on Gauge Data/Purge Calculations and Purge Data sheets (attached).

### Groundwater Sample Analyses

Groundwater samples were analyzed by Kiff Analytical (Kiff), a DHS-certified laboratory, located in Davis, California, for the following analytes:

- TPHg, BTEX, and MTBE by EPA Method 5030/8260B.

### **Groundwater Monitoring Results**

#### Groundwater Flow Direction and Gradient

Static groundwater in the wells was present beneath the site at depths ranging from approximately 8.39 (MW-10) to 11.68 (MW-7) feet bgs. Gauging data, combined with well elevation data, were used to calculate groundwater elevation, and to generate a groundwater elevation and gradient map. The groundwater flow direction was calculated to be toward the west-southwest at a gradient of 0.028 ft/ft (Figure 3). The groundwater gradient and flow direction are consistent with previous measurements.

#### Groundwater Sample Analytical Results

LNAPL:	None
TPHg concentration:	<50 µg/L (MW-1) to 15,000 µg/L (MW-4)
Benzene concentration:	<0.50 µg/L (MW-1) to 27 µg/L (MW-4)
MTBE Concentration:	<0.50 µg/L (MW-10) to 70 µg/L (MW-1)
Dissolved Oxygen:	4.03 mg/L (MW-1), 0.78 mg/L (MW-2), 0.73 mg/L (MW-4), 1.96 mg/L (MW-9)

Groundwater sample analytical results are shown graphically on Figures 4a, 4b, and 4c, and cumulative groundwater sample analytical results are summarized in Table 2. Intrinsic bioremediation data are summarized in Table 3. Copies of the laboratory report and chain-of-custody form are attached.

### **Project Status**

- The site is currently being monitored on a quarterly basis per the HCDEH directives. The next quarterly sampling event is scheduled for August 2006. Groundwater samples will be analyzed for TPHg, BTEX, and MTBE.
- Table 4 shows the groundwater monitoring schedule.

### Project Recommendation

- Despite the remedial excavation, historical soil and groundwater sampling data suggest that a gasoline mass continues to persist in the subsurface which sources the dissolved-phase impacts currently observed at the site. In order to hasten site clean-up, Blue Rock recommends performing temporary "hot-spot" remediation using a mobile High-Vacuum Dual-Phase Extraction (HDPE) rig at the site. The mobile HDPE system would be used to extract soil vapor and groundwater from wells within the known core of the soil and groundwater plume. These wells include MW-2, MW-4, MW-9, and MW-10, which are screened from approximately 5-20 feet bgs or 5-25 feet bgs. Historical soil sample data show that the residual TPHg soil impact extends from approximately 5 to 15 feet bgs with the maximum concentrations located near 10 feet bgs. Therefore, these wells are screened across the zone desired for remediation. Also, performance of the HDPE hot-spot remediation would best be performed between August and November when depth to groundwater typically ranges from ~13-17 feet bgs, which naturally exposes the majority of soil impacts to the effects of soil vapor extraction. Blue Rock recommends operating the HDPE hot-spot treatment unit for a period of approximately 28 days.
- Blue Rock recommends preparation of a detailed *Remedial Workplan for Temporary Hot-Spot Treatment*. The workplan will present detailed remedial operations, vapor and groundwater sampling, and HDPE equipment/process schematic.

### Certification

This report was prepared under the supervision of a California Professional Geologist at Blue Rock. All statements, conclusions, and recommendations are based upon published results from past consultants, field observations by Blue Rock, and analyses performed by a state-certified laboratory as they relate to the time, location, and depth of points sampled by Blue Rock. Interpretation of data, including spatial distribution and temporal trends, are based on commonly used geologic and scientific principles. It is possible that interpretations, conclusions, and recommendations presented in this report may change, as additional data become available and/or regulations change.

Information and interpretation presented herein are for the sole use of the client and regulating agency. The information and interpretation contained in this document should not be relied upon by a third party.

The service performed by Blue Rock has been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the area of the site. No other warranty, expressed or implied, is made.

If you have any questions regarding this project, please contact us at (707) 441-1934.

Sincerely,  
Blue Rock Environmental, Inc.

Prepared by:

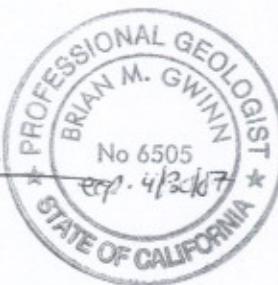


Scott Ferriman  
Project Scientist

Reviewed by:



Brian Gwinn, PG  
Principal Geologist



Attachments:

Table 1: Well Construction Details  
Table 2: Groundwater Elevations and Analytical Results  
Table 3: Intrinsic Bioremediation Data  
Table 4: Groundwater Monitoring Schedule

Figure 1: Site Location Map  
Figure 2: Site Plan  
Figure 3: Groundwater Elevation and Gradient – 5/2/06  
Figure 4a: Dissolved-Phase TPHg Distribution Map – 5/2/06  
Figure 4b: Dissolved-Phase Benzene Distribution Map – 5/2/06  
Figure 4c: Dissolved-Phase MTBE Distribution Map – 5/2/06

Blue Rock's Gauge/Purge Calculations and Well Purging Data Field Sheets  
Laboratory Analytical Reports and Chain-of-Custody Forms

Distribution:

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**Table 1**  
**WELL CONSTRUCTION DETAILS**

Elliott's Service Center

761 Eel River Drive

Loleta, California

Blue Rock Project No. NC-002

Well Identification	Date Installed	Installed by	Casing Diameter (inches)	Total Depth (feet)	Blank Interval (feet)	Screened Interval (feet)	Slot Size (inches)	Filter Pack (feet)	Bentonite Seal (feet)	Cement (feet)
MW-1	5/10/00	Clearwater	2	20	0-5	5-20	0.02	4.5-20	2.5-4.5	0-2.5
MW-2	5/10/00	Clearwater	2	20	0-5	5-20	0.02	4.5-20	2.5-4.5	0-2.5
MW-3	5/10/00	Clearwater	2	20	0-5	5-20	0.02	4.5-20	2.5-4.5	0-2.5
MW-4	5/10/00	Clearwater	2	20	0-5	5-20	0.02	4.5-20	2.5-4.5	0-2.5
MW-5	8/8/01	Clearwater	2	25	0-5	5-25	0.01	4-25	3-4	0-3
MW-6	8/8/01	Clearwater	2	25	0-5	5-25	0.01	4-25	3-4	0-3
MW-7	8/8/01	Clearwater	2	25	0-5	5-25	0.01	4-25	3-4	0-3
MW-8	8/8/01	Clearwater	2	25	0-5	5-25	0.01	4-25	3-4	0-3
MW-9	6/16/04	Blue Rock	2	25	0-5	5-25	0.01	4-25	3-4	0-3
MW-10	6/16/04	Blue Rock	2	25	0-5	5-25	0.01	4-25	3-4	0-3
DOM-1	unknown	unknown	6	45	unknown	unknown	unknown	unknown	unknown	unknown

**Table 2**  
**GROUNDWATER ELEVATIONS AND**  
**ANALYTICAL RESULTS**  
 Elliott's Service Center  
 761 Eel River Drive, Loleta, CA  
 Blue Rock Project No. NC-002

Well No.	Sampling Date	TOC (feet)	DTW (feet)	GWE (feet)	TPHg ( $\mu\text{g/L}$ )	TPHd ( $\mu\text{g/L}$ )	TPHmo ( $\mu\text{g/L}$ )	B ( $\mu\text{g/L}$ )	T ( $\mu\text{g/L}$ )	E ( $\mu\text{g/L}$ )	X ( $\mu\text{g/L}$ )	MTBE ( $\mu\text{g/L}$ )	DIPE ( $\mu\text{g/L}$ )	ETBE ( $\mu\text{g/L}$ )	TAME ( $\mu\text{g/L}$ )	TBA ( $\mu\text{g/L}$ )	Methanol ( $\mu\text{g/L}$ )	Ethanol ( $\mu\text{g/L}$ )
Tank#3	12/18/89	--	--	--	24,000	--	--	<48	140	130	910	--	--	--	--	--	--	
Tank#4	12/18/89	--	--	--	26,000	--	--	680	850	670	2,500	--	--	--	--	--	--	
B-6	11/21/96	--	--	--	53	--	--	<0.5	<0.5	<0.5	<1	<5	--	--	--	--	--	
B-7	11/21/96	--	--	--	4,200	93	--	39	<5	220	290	<50	--	--	--	--	--	
B-9	6/28/05	26.47	12.83	13.64	<50	<50	--	<0.5	<0.5	<0.5	<0.5	2.1	--	--	--	--	--	
B-10	6/28/05	30.47	19.48	10.99	<50	<50	--	<0.5	<0.5	<0.5	<0.5	18	--	--	--	--	--	
B-11	6/28/05	27.69	12.41	15.28	<50	<50	--	<0.5	<0.5	<0.5	<0.5	3.0	--	--	--	--	--	
MW-1	5/15/00	98.88	10.21	88.67	<50	<50	--	<0.3	<0.3	0.5	<0.6	6.4	<0.5	<0.5	0.5	<500	--	--
	8/23/00	98.88	12.31	86.57	<50	<50	<50	0.54	<0.5	<0.5	<0.5	11	--	--	0.98	--	<50	<5
Screen	10/30/00	98.88	12.78	86.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5'-20'	11/16/00	98.88	12.58	86.30	<50	<50	--	<0.5	<0.5	<0.5	<0.5	4.8	<0.5	<0.5	<0.5	<5	<50	<5
	12/7/01	98.88	12.23	86.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	1/22/01	98.88	12.17	86.71	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/6/01	98.88	11.69	87.19	<50	<50	--	<0.5	<0.5	<0.5	<0.5	23	<0.5	<0.5	2.7	<5	<50	<5
	3/8/01	98.88	10.75	88.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/11/01	98.88	12.01	86.87	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/01	98.88	12.81	86.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/20/01	98.88	14.12	84.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/15/01	98.88	14.91	83.97	<50	<50	--	<0.5	<0.5	<0.5	<0.5	1.6	<0.5	<0.5	<0.5	<5	<50	<5.0
	11/2/01	98.88	16.18	82.70	<50	--	--	<0.5	<0.5	<0.5	<0.5	0.51	<0.5	<0.5	<0.5	<5	--	--
	2/1/02	98.88	11.89	86.99	80	--	--	2.5	<0.5	<0.5	<0.5	33	<0.5	<0.5	6.3	<5	--	--
	5/8/02	98.88	11.98	86.90	130	320	--	4.7	<0.5	<0.5	<0.5	58	<0.5	<0.5	11	<5	--	--
	8/14/02	29.57	15.33	14.24	<50	<50	--	<0.5	<0.5	<0.5	<0.5	1.7	<0.5	<0.5	<0.5	<5	--	--
	11/13/02	29.57	16.58	12.99	<50	<50	--	<0.5	<0.5	<0.5	<0.5	0.70	<0.5	<0.5	<0.5	<5	--	--
	2/25/03	29.57	11.65	17.92	210	<200	--	10	<0.5	<0.5	<0.5	71	<0.5	<0.5	12	<5	--	--
	5/9/03	29.57	10.18	19.39	150	340	--	4.2	<0.5	<0.5	<0.5	39	<0.5	<0.5	6.4	<5	--	--
	8/18/03	29.57	12.71	16.86	<50	<50	--	<0.5	<0.5	<0.5	<0.5	2.5	<0.5	<0.5	<0.5	<5	--	--
	11/7/03	29.57	14.74	14.83	<50	93	--	<0.5	<0.5	<0.5	<0.5	3.4	<0.5	<0.5	<0.5	<5	--	--
	2/11/04	29.57	10.50	19.07	<50	230	--	<0.5	<0.5	<0.5	<0.5	43	<0.5	<0.5	1.8	<5	--	--
	5/4/04	29.57	11.55	18.02	68	<50	--	<0.5	<0.5	<0.5	<1	85	<0.5	<0.5	2.9	<5	--	--
	7/27/04	29.57	14.44	15.13	<50	<50	--	<0.5	<0.5	<0.5	<0.5	7.4	--	--	--	--	--	--
	11/5/04	29.57	13.14	16.43	<50	<50	--	<0.5	<0.5	<0.5	<0.5	43	--	--	--	--	--	--
	2/2/05	29.57	10.99	18.58	<50	<50	--	<0.5	<0.5	<0.5	<0.5	76	--	--	--	--	--	--
	5/6/05	29.57	11.36	18.21	<50	<50	--	<0.5	<0.5	<0.5	<0.5	37	--	--	--	--	--	--
	6/28/05	29.57	12.20	17.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/1/05	29.57	13.15	16.42	<50	<50	--	<0.5	<0.5	<0.5	<0.5	7.8	--	--	--	--	--	--
	11/1/05	29.57	13.27	16.30	<50	--	--	<0.5	<0.5	<0.5	<0.5	4.9	--	--	--	--	--	--
	2/6/06	29.57	10.05	19.52	<50	--	--	<0.5	<0.5	<0.5	<0.5	97	--	--	--	--	--	--
	2/7/06	29.57	10.06	19.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/2/06	29.57	9.10	20.47	<50	--	--	<0.5	<0.5	<0.5	<0.5	70	--	--	--	--	--	--

**Table 2**  
**GROUNDWATER ELEVATIONS AND**  
**ANALYTICAL RESULTS**  
 Elliott's Service Center  
 761 Eel River Drive, Loleta, CA  
 Blue Rock Project No. NC-002

Well No.	Sampling Date	TOC (feet)	DTW (feet)	GWE (feet)	TPHg ( $\mu\text{g/L}$ )	TPHd ( $\mu\text{g/L}$ )	TPHmo ( $\mu\text{g/L}$ )	B ( $\mu\text{g/L}$ )	T ( $\mu\text{g/L}$ )	E ( $\mu\text{g/L}$ )	X ( $\mu\text{g/L}$ )	MTBE ( $\mu\text{g/L}$ )	DIPE ( $\mu\text{g/L}$ )	ETBE ( $\mu\text{g/L}$ )	TAME ( $\mu\text{g/L}$ )	TBA ( $\mu\text{g/L}$ )	Methanol ( $\mu\text{g/L}$ )	Ethanol ( $\mu\text{g/L}$ )
MW-2	5/15/00	98.10	10.35	87.75	708	186	--	<0.3	7.7	19.2	152	27.2	<0.5	<0.5	<0.5	<500	--	--
	8/23/00	98.10	12.32	85.78	2,200	241	<50	8.9	11	72	410	79	--	--	1.3	--	<50	<5
Screen	10/30/00	98.10	12.59	85.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5'-20'	11/16/00	98.10	12.35	85.75	1,600	226	--	4.9	1.1	46	240	38	<0.5	<0.5	0.57	11	<50	<5
	12/7/01	98.10	11.99	86.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	1/22/01	98.10	11.96	86.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/6/01	98.10	11.49	86.61	1,600	<200	--	2.3	3.0	31	230	35	<0.5	<0.5	0.77	6.8	<50	<5
	3/8/01	98.10	10.38	87.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/11/01	98.10	11.79	86.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/01	98.10	12.59	85.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/20/01	98.10	13.95	84.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/15/01	98.10	14.73	83.37	310	<100	--	1.7	<0.5	3.6	8.4	39	<0.5	<0.5	1.1	7.4	<50	<5.0
	11/2/01	98.10	16.02	82.08	<50	--	--	<0.5	<0.5	<0.5	<0.5	7.1	<0.5	<0.5	<0.5	<5	--	--
	2/1/02	98.10	11.73	86.37	4,200	--	--	4.6	5.5	110	450	68	<0.5	<0.5	2.8	17	--	--
	5/8/02	98.10	11.79	86.31	8,800	<500	--	19	18	290	1,200	150	<0.5	<0.5	4.9	30	--	--
	8/14/02	28.81	15.17	13.64	270	<100	--	1	0.53	11	14	53	<0.5	<0.5	2	9.5	--	--
	11/13/02	28.81	16.44	12.37	610	<100	--	<0.5	0.55	8.1	32	7.4	<0.5	<0.5	<0.5	<5	--	--
	2/25/03	28.81	11.46	17.35	6,400	<2,200	--	4.2	6.9	160	490	89	<0.5	<0.5	3.8	15	--	--
	5/9/03	28.81	9.97	18.84	18,000	<3,000	--	6.1	21	480	1,800	100	<2.5	<2.5	4.2	<25	--	--
	8/18/03	28.81	12.48	16.33	570	<200	--	0.9	<0.5	19	48	28	<0.5	<0.5	1.3	<5	--	--
	11/7/03	28.81	14.49	14.32	3,500	<600	--	4.6	1.6	130	200	130	<0.5	<0.5	6.5	18	--	--
	2/11/04	28.81	10.31	18.50	21,000	<3,000	--	41	41	520	2,100	110	<5	<5	<5	<50	--	--
	5/4/04	28.81	11.36	17.45	13,000	840*	--	9.7	19	470	1,750	72	<5	<5	<5	<50	--	--
	7/27/04	28.81	14.22	14.59	880	<300	--	2.7	0.55	28	15	82	--	--	--	--	--	--
	11/5/04	28.81	12.89	15.92	350	<100	--	<0.5	<0.5	12	15	29	--	--	--	--	--	--
	2/2/05	28.81	10.74	18.07	4,900	<200	--	4.5	5.8	160	390	35	--	--	--	--	--	--
	5/6/05	28.81	11.13	17.68	3,300	<80	--	13	3.3	94	250	44	--	--	--	--	--	--
	6/28/05	28.81	11.97	16.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/1/05	28.81	12.91	15.90	770	<80	--	0.56	<0.5	26	44	9.6	--	--	--	--	--	--
	11/1/05	28.81	13.00	15.81	500	--	--	0.54	<0.5	10	20	9.4	--	--	--	--	--	--
	2/7/06	28.81	9.85	18.96	2,000	--	--	1.8	3.8	100	180	18	--	--	--	--	--	--
	5/2/06	28.81	8.83	19.98	3,300	--	--	1.6	3.7	120	270	21	--	--	--	--	--	--
MW-3	5/15/00	98.05	10.46	87.59	<50	<50	--	<0.3	<0.3	<0.3	<0.6	<2	<0.5	<0.5	<0.5	<500	--	--
	8/23/00	98.05	12.46	85.59	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	<0.5	--	<50	<5
Screen	10/30/00	98.05	12.71	85.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5'-20'	11/16/00	98.05	12.47	85.58	<50	<50	--	<0.5	<0.5	<0.5	<0.5	0.70	<0.5	<0.5	<0.5	<50	<50	<5
	12/7/01	98.05	12.11	85.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	1/22/01	98.05	12.06	85.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/6/01	98.05	11.58	86.47	<50	<50	--	<0.5	<0.5	<0.5	<0.5	0.51	<0.5	<0.5	<0.5	<50	<50	<5
	3/8/01	98.05	10.41	87.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/11/01	98.05	11.88	86.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/01	98.05	12.71	85.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/20/01	98.05	14.08	83.97	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/15/01	98.05	14.88	83.17	<50	<50	--	<0.5	<0.5	<0.5	<0.5	0.56	<0.5	<0.5	<0.5	<50	<50	<5
	11/2/01	98.05	16.17	81.88	<50	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	--	--
	2/1/02	98.05	11.84	86.21	<50	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	--	--
	5/8/02	98.05	11.90	86.15	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	--	--
	8/14/02	28.75	15.33	13.42	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	--	--
	11/13/02	28.75	16.70	12.05	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	--	--
	2/25/03	28.75	11.55	17.20	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	--	--
	5/9/03	28.75	10.00	18.75	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	--	--
	8/18/03	28.75	12.58	16.17	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	--	--
	11/7/03	28.75	14.62	14.13	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	--	--
	2/11/04	28.75	10.39	18.36	<50	180	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	--	--
	5/4/04	28.75	11.45	17.30	<50	<50	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<5	--	--
	7/27/04	28.75	14.38	14.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/5/04	28.75	13.07	15.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/2/05	28.75	10.83	17.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/6/05	28.75	11.21	17.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/28/05	28.75	12.10	16.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/1/05	28.75	13.04	15.71	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/1/05	28.75	13.15	15.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/6/06	28.75	9.94	18.81	<50	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	--	--
	2/7/06	28.75	9.93	18.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/2/06	28.75	8.83	19.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**Table 2**  
**GROUNDWATER ELEVATIONS AND**  
**ANALYTICAL RESULTS**  
 Elliott's Service Center  
 761 Eel River Drive, Loleta, CA  
 Blue Rock Project No. NC-002

Well No.	Sampling Date	TOC (feet)	DTW (feet)	GWE (feet)	TPHg ( $\mu\text{g/L}$ )	TPHd ( $\mu\text{g/L}$ )	TPHmo ( $\mu\text{g/L}$ )	B ( $\mu\text{g/L}$ )	T ( $\mu\text{g/L}$ )	E ( $\mu\text{g/L}$ )	X ( $\mu\text{g/L}$ )	MTBE ( $\mu\text{g/L}$ )	DIPE ( $\mu\text{g/L}$ )	ETBE ( $\mu\text{g/L}$ )	TAME ( $\mu\text{g/L}$ )	TBA ( $\mu\text{g/L}$ )	Methanol ( $\mu\text{g/L}$ )	Ethanol ( $\mu\text{g/L}$ )
MW-4	5/15/00	98.43	10.27	88.16	3,390	1,490	--	13	6	350	326	<2	<0.5	<0.5	<0.5	<500	--	--
	8/23/00	98.43	12.33	86.10	15,000	1,550	<50	43	15	780	770	3.0	--	--	<2	--	<200	<20
Screen	10/30/00	98.43	12.64	85.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5'-20'	11/16/00	98.43	12.38	86.05	10,000	1,800	--	20	7.4	410	420	5.2	<2	<2	<2	<20	<200	<20
	12/7/01	98.43	12.03	86.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	1/22/01	98.43	12.01	86.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/5/01	98.43	11.52	86.91	15,000	<800	--	32	14	720	830	5.9	<2	<2	<2	<20	<200	<20
	3/8/01	98.43	10.40	88.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/11/01	98.43	11.83	86.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/12/01	98.43	12.63	85.80	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/20/01	98.43	13.96	84.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/15/01	98.43	14.76	83.67	3,400	<1,000	--	13	3.4	220	180	3.0	<1.0	<1.0	<1.0	16	<100	<10
	11/2/01	98.43	16.04	82.39	53	--	--	<0.5	<0.5	<0.5	<0.5	1.0	<0.5	<0.5	<0.5	<5	--	--
	2/1/02	98.43	11.72	86.71	14,000	--	--	22	14	640	980	3.3	<2.5	<2.5	<2.5	<25	--	--
	5/8/02	98.43	11.80	86.63	8,100	<1,000	--	15	6.5	340	530	2.9	<1.0	<1.0	<1.0	15	--	--
	8/14/02	29.14	15.19	13.95	1,700	<250	--	5.8	0.81	53	11	<1.5	<0.5	<0.5	<0.5	7.4	--	--
	11/13/02	29.14	16.46	12.68	510	<50	--	1.5	<0.5	15	4.6	<0.5	<0.5	<0.5	<0.5	<5.0	--	--
	2/25/03	29.14	11.46	17.68	6,600	<2,000	--	16	4.3	170	200	2.9	<0.5	<0.5	<0.5	19	--	--
	5/9/03	29.14	9.98	19.16	6,700	<2,000	--	16	5.4	350	250	3.4	<1	<1	<1	21	--	--
	8/18/03	29.14	12.53	16.61	4,000	<1,500	--	8	2.2	110	150	1.5	<0.5	<0.5	<0.5	8.7	--	--
	11/7/03	29.14	14.55	14.59	3,000	<800	--	7.6	0.71	81	36	1.4	<0.5	<0.5	<0.5	9.2	--	--
	2/11/04	29.14	10.34	18.80	23,000	<5,000	--	29	17	1,100	1,400	<5	<5	<5	<5	<50	--	--
	5/4/04	29.14	11.37	17.77	31,000	5,700*	--	<50	<50	1,700	2,250	<50	<50	<50	<50	<500	--	--
	7/27/04	29.14	14.27	14.87	870	<300	--	3.6	0.56	35	9.5	0.64	--	--	--	--	--	--
	11/5/04	29.14	12.97	16.17	1,300	<400	--	5.2	0.58	16	22	0.66	--	--	--	--	--	--
	2/2/05	29.14	10.78	18.36	20,000	<200	--	21	9.9	920	920	<2.5	--	--	--	--	--	--
	5/6/05	29.14	11.16	17.98	13,000	<500	--	16	7.8	570	580	<2.5	--	--	--	--	--	--
	6/28/05	29.14	12.02	17.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/1/05	29.14	12.97	16.17	4,400	<300	--	10	2.8	160	170	1.2	--	--	--	--	--	--
	11/1/05	29.14	13.08	16.06	1,100	--	--	4.4	<0.5	40	10	0.68	--	--	--	--	--	--
	2/6/06	29.14	9.83	19.31	16,000	--	--	22	7.8	1,100	940	2.1	--	--	--	--	--	--
	2/7/06	29.14	9.84	19.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/2/06	29.14	8.85	20.29	15,000	--	--	27	11	940	830	<2.5	--	--	--	--	--	--
MW-5	8/15/01	97.54	14.23	83.31	<50	150	--	<0.5	<0.5	<0.5	<0.5	2.0	<0.5	<0.5	<0.5	<5	<50	<5
	11/2/01	97.54	15.53	82.01	<50	--	--	<0.5	<0.5	<0.5	<0.5	1.7	<0.5	<0.5	<0.5	<5	--	--
Screen	2/1/02	97.54	11.42	86.12	<50	--	--	<0.5	<0.5	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<5	--	--
5'-25'	5/8/02	97.54	11.52	86.02	<50	72	--	<0.5	<0.5	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<5	--	--
	8/14/02	28.28	14.72	13.56	<50	<50	--	<0.5	<0.5	<0.5	<0.5	1.8	<0.5	<0.5	<0.5	<5	--	--
	11/13/02	28.28	15.92	12.36	<50	<50	--	<0.5	<0.5	<0.5	<0.5	1.7	<0.5	<0.5	<0.5	<5	--	--
	2/25/03	28.28	11.23	17.05	<50	<50	--	<0.5	<0.5	<0.5	<0.5	0.93	<0.5	<0.5	<0.5	<5	--	--
	5/9/03	28.28	9.89	18.39	<50	110	--	<0.5	<0.5	<0.5	<0.5	1.5	<0.5	<0.5	<0.5	<5	--	--
	8/18/03	28.28	12.17	16.11	<50	<50	--	<0.5	<0.5	<0.5	<0.5	0.91	<0.5	<0.5	<0.5	<5	--	--
	11/7/03	28.28	14.11	14.17	<50	130	--	<0.5	<0.5	<0.5	<0.5	1.3	<0.5	<0.5	<0.5	<5	--	--
	2/11/04	28.28	10.18	18.10	<50	140	--	<0.5	<0.5	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<5	--	--
	5/4/04	28.28	11.13	17.15	<50	<50	--	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<5	--	--
	7/27/04	28.28	13.81	14.47	<50	<50	--	<0.5	<0.5	<0.5	<0.5	1.6	--	--	--	--	--	--
	11/5/04	28.28	12.54	15.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/2/05	28.28	10.57	17.71	<50	<50	--	<0.5	<0.5	<0.5	<0.5	0.73	--	--	--	--	--	--
	5/6/05	28.28	10.92	17.36	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/28/05	28.28	11.68	16.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/1/05	28.28	12.54	15.74	<50	<50	--	<0.5	<0.5	<0.5	<0.5	1.5	--	--	--	--	--	--
	11/1/05	28.28	12.65	15.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/6/06	28.28	9.78	18.50	<50	--	--	<0.5	<0.5	<0.5	<0.5	1.6	--	--	--	--	--	--
	2/7/06	28.28	9.75	18.53	--	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--
	5/2/06	28.28	8.82	19.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**Table 2**  
**GROUNDWATER ELEVATIONS AND**  
**ANALYTICAL RESULTS**  
 Elliott's Service Center  
 761 Eel River Drive, Loleta, CA  
 Blue Rock Project No. NC-002

Well No.	Sampling Date	TOC (feet)	DTW (feet)	GWE (feet)	TPHg ( $\mu\text{g/L}$ )	TPHd ( $\mu\text{g/L}$ )	TPHmo ( $\mu\text{g/L}$ )	B ( $\mu\text{g/L}$ )	T ( $\mu\text{g/L}$ )	E ( $\mu\text{g/L}$ )	X ( $\mu\text{g/L}$ )	MTBE ( $\mu\text{g/L}$ )	DIPE ( $\mu\text{g/L}$ )	ETBE ( $\mu\text{g/L}$ )	TAME ( $\mu\text{g/L}$ )	TBA ( $\mu\text{g/L}$ )	Methanol ( $\mu\text{g/L}$ )	Ethanol ( $\mu\text{g/L}$ )
MW-6	8/15/01	97.90	15.02	82.88	<50	<50	--	<0.5	<0.5	<0.5	<0.5	3.9	<0.5	<0.5	<0.5	<5	<50	<5
	11/2/01	97.90	16.28	81.62	<50	--	--	<0.5	<0.5	<0.5	<0.5	1.4	<0.5	<0.5	<0.5	<5	--	--
Screen	2/1/02	97.90	11.95	85.95	<50	--	--	<0.5	<0.5	<0.5	<0.5	1.1	<0.5	<0.5	<0.5	<5	--	--
5'-25'	5/8/02	97.90	12.04	85.86	<50	<50	--	<0.5	<0.5	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<5	--	--
	8/14/02	28.58	15.46	13.12	<50	<50	--	<0.5	<0.5	<0.5	<0.5	1.7	<0.5	<0.5	<0.5	<5	--	--
	11/13/02	28.58	16.73	11.85	<50	<50	--	<0.5	<0.5	<0.5	<0.5	2.7	<0.5	<0.5	<0.5	<5	--	--
	2/25/03	28.58	11.67	16.91	<50	<50	--	<0.5	<0.5	<0.5	<0.5	1.4	<0.5	<0.5	<0.5	<5	--	--
	5/9/03	28.58	10.19	18.39	<50	<50	--	<0.5	<0.5	<0.5	<0.5	0.85	<0.5	<0.5	<0.5	<5	--	--
	8/18/03	28.58	12.70	15.88	<50	<50	--	<0.5	<0.5	<0.5	<0.5	0.72	<0.5	<0.5	<0.5	<5	--	--
	11/7/03	28.58	14.76	13.82	<50	<50	--	<0.5	<0.5	<0.5	<0.5	0.96	<0.5	<0.5	<0.5	<5	--	--
	2/11/04	28.58	10.57	18.01	<50	160	--	0.84	<0.5	<0.5	1.4	2.3	<0.5	<0.5	<0.5	<5	--	--
	5/4/04	28.58	11.62	16.96	<50	<50	--	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<5	--	--
	7/27/04	28.58	14.51	14.07	<50	<50	--	<0.5	<0.5	<0.5	<0.5	1.3	--	--	--	--	--	--
	11/5/04	28.58	13.17	15.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/2/05	28.58	10.97	17.61	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--
	5/6/05	28.58	11.37	17.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/28/05	28.58	12.24	16.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/1/05	28.58	13.17	15.41	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--
	11/1/05	28.58	13.25	15.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/6/06	28.58	10.16	18.42	<50	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--
	2/7/06	28.58	10.13	18.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/2/06	28.58	9.01	19.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	8/15/01	98.61	19.11	79.50	<50	<50	--	<0.5	<0.5	<0.5	<0.5	1.7	<0.5	<0.5	<0.5	<5	<50	<5
	11/2/01	98.61	20.63	77.98	<50	--	--	<0.5	<0.5	<0.5	<0.5	1.8	<0.5	<0.5	<0.5	<5	--	--
Screen	2/1/02	98.61	15.53	83.08	<50	--	--	<0.5	<0.5	<0.5	<0.5	1.1	<0.5	<0.5	<0.5	<5	--	--
5'-25'	5/8/02	98.61	15.63	82.98	<50	76	--	<0.5	<0.5	<0.5	<0.5	2.0	<0.5	<0.5	<0.5	<5	--	--
	8/14/02	29.29	19.93	9.36	<50	<50	--	<0.5	<0.5	<0.5	<0.5	1.3	<0.5	<0.5	<0.5	<5	--	--
	11/13/02	29.29	21.62	7.67	<50	<50	--	<0.5	<0.5	<0.5	<0.5	0.93	<0.5	<0.5	<0.5	<5	--	--
	2/25/03	29.29	15.21	14.08	<50	<50	--	<0.5	<0.5	<0.5	<0.5	1.0	<0.5	<0.5	<0.5	<5	--	--
	5/9/03	29.29	13.24	16.05	<50	<50	--	<0.5	<0.5	<0.5	<0.5	0.81	<0.5	<0.5	<0.5	<5	--	--
	8/18/03	29.29	16.41	12.88	<50	<50	--	<0.5	<0.5	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<5	--	--
	11/7/03	29.29	18.63	10.66	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	--	--
	2/11/04	29.29	14.01	15.28	<50	140	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	--	--
	5/4/04	29.29	15.38	13.91	<50	<50	--	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<5	--	--
	7/27/04	29.29	18.76	10.53	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--
	11/5/04	29.29	17.09	12.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/2/05	29.29	14.25	15.04	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--
	5/6/05	29.29	14.80	14.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/28/05	29.29	16.02	13.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/1/05	29.29	17.17	12.12	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	--	--
	11/1/05	29.29	17.03	12.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/6/06	29.29	13.77	15.52	<50	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--
	2/7/06	29.29	13.66	15.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/2/06	29.29	11.68	17.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	8/15/01	98.20	14.99	83.21	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<50	<5
	11/2/01	98.20	16.26	81.94	<50	--	--	<0.5	<0.5	<0.5	<0.5	0.61	<0.5	<0.5	<0.5	<5	--	--
Screen	2/1/02	98.20	11.94	86.26	<50	--	--	<0.5	<0.5	<0.5	<0.5	0.65	<0.5	<0.5	<0.5	<5	--	--
5'-25'	5/8/02	98.20	11.95	86.25	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	--	--
	8/14/02	28.89	15.41	13.48	<50	<50	--	<0.5	<0.5	<0.5	<0.5	0.63	<0.5	<0.5	<0.5	<5	--	--
	11/13/02	28.89	16.71	12.18	<50	<50	--	<0.5	<0.5	<0.5	<0.5	0.57	<0.5	<0.5	<0.5	<5	--	--
	2/25/03	28.89	11.63	17.26	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	--	--
	5/9/03	28.89	10.06	18.83	<50	<50	--	<0.5	<0.5	<0.5	<0.5	0.60	<0.5	<0.5	<0.5	<5	--	--
	8/18/03	28.89	12.68	16.21	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	--	--
	11/7/03	28.89	14.74	14.15	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	--	--
	2/11/04	28.89	10.45	18.44	<50	170	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	--	--
	5/4/04	28.89	11.52	17.37	<50	<50	--	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<5	--	--
	7/27/04	28.89	14.47	14.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/5/04	28.89	13.17	15.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/2/05	28.89	10.91	17.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/6/05	28.89	11.30	17.59	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/28/05	28.89	12.18	16.71	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/1/05	28.89	13.13	15.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/1/05	28.89	13.24	15.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/6/06	28.89	10.01	18.88	<50	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	--	--
	2/7/06	28.89	10.01	18.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/2/06	28.89	8.88	20.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**Table 2**  
**GROUNDWATER ELEVATIONS AND**  
**ANALYTICAL RESULTS**  
 Elliott's Service Center  
 761 Eel River Drive, Loleta, CA  
 Blue Rock Project No. NC-002

Well No.	Sampling Date	TOC (feet)	DTW (feet)	GWE (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	Methanol (µg/L)	Ethanol (µg/L)
Screen 5'-25'	7/27/04	28.28	13.94	14.34	150	<100	--	0.88	<0.5	1.4	16	0.68	--	--	--	--	--	
	11/5/04	28.28	12.64	15.64	140	<50	--	1.0	<0.5	3.2	9.4	0.81	--	--	--	--	--	
	2/2/05	28.28	10.53	17.75	440	<50	--	4.8	1.1	8.7	51	7.9	--	--	--	--	--	
	5/6/05	28.28	10.90	17.38	1,800	<50	--	18	6.5	46	200	12	--	--	--	--	--	
	6/28/05	28.28	11.73	16.55	--	--	--	--	--	--	--	--	--	--	--	--	--	
	8/1/05	28.28	12.64	15.64	550	<80	--	6.3	1.2	13	42	1.3	--	--	--	--	--	
	11/1/05	28.28	12.73	15.55	440	--	--	4.8	0.62	22	17	3.7	--	--	--	--	--	
	2/6/06	28.28	9.69	18.59	1,100	--	--	6.2	2.7	36	78	6.9	--	--	--	--	--	
	2/7/06	28.28	9.69	18.59	--	--	--	--	--	--	--	--	--	--	--	--	--	
	5/2/06	28.28	8.63	19.65	1,500	--	--	12	6.2	49	170	4.9	--	--	--	--	--	
MW-10	7/27/04	28.78	13.70	15.08	84	<50	--	1.9	<0.5	0.52	5.7	<0.5	--	--	--	--	--	
	11/5/04	28.78	12.42	16.36	1,200	<200	--	43	1.2	12	120	<0.5	--	--	--	--	--	
	2/2/05	28.78	10.28	18.50	180	<50	--	11	<0.5	1.1	19	<0.5	--	--	--	--	--	
	5/6/05	28.78	10.65	18.13	140	<50	--	6.4	<0.5	2.0	14	<0.5	--	--	--	--	--	
	6/28/05	28.78	11.50	17.28	--	--	--	--	--	--	--	--	--	--	--	--	--	
	8/1/05	28.78	12.45	16.33	180	<50	--	9.5	<0.5	2.7	17	<0.5	--	--	--	--	--	
	11/1/05	28.78	12.56	16.22	160	--	--	6.3	<0.5	1.2	15	<0.5	--	--	--	--	--	
	2/6/06	28.78	9.35	19.43	200	--	--	8.3	<0.5	1.1	18	<0.5	--	--	--	--	--	
	2/7/06	28.78	9.36	19.42	--	--	--	--	--	--	--	--	--	--	--	--	--	
	5/2/06	28.78	8.39	20.39	140	--	--	6.5	<0.5	2.0	12	<0.5	--	--	--	--	--	
PZ-1	5/15/00	--	--	--	<50	206	--	<0.3	<0.3	0.60	0.80	<2	<0.5	<0.5	<0.5	<500	--	--
		MCL	--	--	--	1	150	300	1,750	13								
		Taste & odor threshold	5	100	--	--	42	29	17	--								
		Cleanup Goals	50	100	175	0.5	42	29	17	5								

**Notes :**

TOC: Top of casing referenced to feet above mean sea level (msl) in August 2002.

DTW: Depth to water as referenced to top of well casing.

GWE: Groundwater elevation as referenced to benchmark.

TPHg: Total Petroleum Hydrocarbons as Gasoline by EPA 5030/8260B.

TPHd: Total Petroleum Hydrocarbons as Diesel by EPA Method 3510/8015M.

TPHmo: Total Petroleum Hydrocarbons as motor oil by EPA Method 3510/8015M.

BTEX: Benzene, toluene, ethylbenzene, and xylenes by EPA method 8260B.

MTBE: Methyl tertiary butyl ether by EPA method 8260B.

DIPE: Diisopropyl ether by EPA Method 8260B.

ETBE: Ethyl-t-butyl ether by EPA Method 8260B.

TAME: Tertiary amyl methyl ether by EPA Method 8260B.

TBA: Teri-Butanol by EPA Method 8260B.

Methanol & Ethanol: by EPA Method 8260B.

µg/L: micrograms per liter

"--": Not analyzed, available, or applicable

MCL: Maximum contaminant level, a Federal drinking water standard based on health, technology and economic

Taste & odor threshold: A drinking water standard

\* The sample chromatogram does not match the standard chromatogram for this compound.

**Table 3**  
**INTRINSIC BIOREMEDIATION DATA**  
Elliott's Service Center  
761 Eel River Drive, Loleta, CA  
Blue Rock Project No. NC-002

Well No.	Date	TPHg (µg/L)	MTBE (µg/L)	D.O.* (mg/L)	Eh* (mV)	Temp (C)	pH*	Total				Ortho Phosphate (mg/L)	Ferrous Iron (mg/L)	TOC (mg/L)	COD (mg/L)	BOD (mg/L)	Heterotrophic Plate Count (CFU/mL)	Aerobic Hydrocarbon Degraders (CFU/mL)		Anaerobic Hydrocarbon Degraders (CFU/mL)	
								Alkalinity (mg/L)	Nitrate (mg/L)	Ammonia (mg/L)	Sulfate (mg/L)										
MW-1	5/8/02	130	58	0.86	115	17.2	6.6	--	--	--	--	--	--	--	--	--	--	--	--		
	8/14/02	<50	1.7	4.04	249	15.2	6.6	--	--	--	--	--	--	--	--	--	--	--	--		
	11/13/02	<50	0.7	2.21	204	15.2	5.7	--	--	--	--	--	--	--	--	--	--	--	--		
	2/25/03	210	71	1.28	232	13.3	6.8	--	--	--	--	--	--	--	--	--	--	--	--		
	5/9/03	150	39	1.16	29	14.6	6.2	--	--	--	--	--	--	--	--	--	--	--	--		
	8/18/03	<50	2.5	1.04	161	16.0	6.4	--	--	--	--	--	--	--	--	--	--	--	--		
	11/7/03	<50	3.4	1.19	292	16.1	5.9	--	--	--	--	--	--	--	--	--	--	--	--		
	2/11/04	<50	43	--	--	15.3	6.4	--	--	--	--	--	--	--	--	--	--	--	--		
	5/4/04	68	85	2.94	--	15.2	6.6	--	--	--	--	--	--	--	--	--	--	--	--		
	7/27/04	<50	7.4	1.86	--	16.0	6.0	--	--	--	--	--	--	--	--	--	--	--	--		
	11/5/04	<50	43	1.71	--	15.7	5.6	--	--	--	--	--	--	--	--	--	--	--	--		
	2/2/05	<50	76	1.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	5/6/05	<50	37	4.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	8/1/05	<50	7.8	4.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	11/1/05	<50	4.9	5.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	2/6/06	<50	97	4.77	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	5/2/06	<50	70	4.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-2	5/8/02	8,800	150	1.00	99	18.0	6.6	--	--	--	--	--	--	--	--	--	--	--	--		
	8/14/02	270	53	3.60	222	15.9	6.4	39	17	0.50	2.9	--	<0.1	2.4	<10	<3	2,000	200	200		
	11/13/02	610	7.4	3.16	197	16.5	5.6	34	18	0.17	3.3	--	<0.1	<2	14	<3	200,000	100	20,000		
	2/25/03	6,400	89	1.65	148	13.4	6.7	--	--	--	--	--	--	--	--	--	--	--	--		
	5/9/03	18,000	100	1.44	21	14.9	5.9	--	--	--	--	--	--	--	--	--	--	--	--		
	8/18/03	570	28	1.22	127	16.6	6.0	--	--	--	--	--	--	--	--	--	--	--	--		
	11/7/03	3,500	130	1.27	181	16.3	6.2	--	--	--	--	--	--	--	--	--	--	--	--		
	2/11/04	21,000	110	--	--	15.3	6.4	--	--	--	--	--	--	--	--	--	--	--	--		
	5/4/04	13,000	72	2.70	--	16.1	6.5	--	--	--	--	--	--	--	--	--	--	--	--		
	7/27/04	880	82	1.83	--	16.0	5.7	--	--	--	--	--	--	--	--	--	--	--	--		
	11/5/04	350	29	1.63	--	15.8	5.8	--	--	--	--	--	--	--	--	--	--	--	--		
	2/2/05	4,900	35	1.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	5/6/05	3,300	44	0.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	8/1/05	770	9.6	3.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	11/1/05	500	9.4	6.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	2/6/06	2,000	18	1.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	5/2/06	3,300	21	0.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-3	5/8/02	<50	<0.5	1.20	112	18.1	6.6	--	--	--	--	--	--	--	--	--	--	--	--		
	8/14/02	<50	<0.5	3.84	233	15.8	6.6	--	--	--	--	--	--	--	--	--	--	--	--		
	11/13/02	<50	<0.5	3.67	229	15.2	5.9	--	--	--	--	--	--	--	--	--	--	--	--		
	2/25/03	<50	<0.5	1.17	230	13.3	6.8	--	--	--	--	--	--	--	--	--	--	--	--		
	5/9/03	<50	<0.5	1.08	39	15.0	5.8	--	--	--	--	--	--	--	--	--	--	--	--		
	8/18/03	<50	<0.5	1.02	268	16.3	5.8	--	--	--	--	--	--	--	--	--	--	--	--		
	11/7/03	<50	<0.5	1.47	318	16.9	5.9	--	--	--	--	--	--	--	--	--	--	--	--		
MW-3	2/11/04	<50	<0.5	--	--	15.2	6.4	--	--	--	--	--	--	--	--	--	--	--	--		
	5/4/04	<50	<0.5	2.94	--	15.2	6.5	--	--	--	--	--	--	--	--	--	--	--	--		
	7/27/04	--	--	1.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	11/5/04	--	--	1.77	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	2/2/05	--	--	1.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	8/1/05	--	--	3.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	11/1/05	--	--	4.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	2/6/06	<50	<0.5	4.87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	5/2/06	--	--	3.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-4	5/8/02	8,100	2.9	1.10	85	17.6	6.7	98	3.8	0.38	2.3	<0.5	2.5	19	--	28	600,000	2,000	10,000		
	8/14/02	1,700	<1.5	4.54	138	16.0	6.6	58	10	0.29	3.3	--	0.24	3.6	19	<3	6,000	700	20,000		
	11/13/02	510	<0.5	2.41	190	16.0	5.1	25	18	0.13	3.5	--	<0.1	4.8	12	<3	4,000	<10	7,000		
	2/25/03	6,600	2.9	1.70	149	13.5	6.7	--	--	--	--	--	--	--	--	--	--	--	--		
	5/9/03	6,700	3.4	1.24	42	15.0	6.1	--	--	--	--	--	--	--	--	--	--	--	--		
	8/18/03	4,000	1.5	1.29	111	16.8	6.0	--	--	--	--	--	--	--	--	--	--	--	--		
	11/7/03	3,000	1.4	1.21	160	16.9	6.2	--	--	--	--	--	--	--	--	--	--	--	--		
	2/11/04	23,000	<5	--	--	15.3	6.4	--	--	--	--	--	--	--	--	--	--	--	--		
	5/4/04	31,000	<50	2.49	--	16.8	6.4	--	--	--	--	--	--	--	--	--	--	--	--		
	7/27/04	870	0.64	1.71	--	16.0	5.7	--	--	--	--	--	--	--	--	--	--	--	--		
	11/5/04	1,300	0.66	1.49	--	15.7	5.7	--	--	--	--	--	--	--	--	--	--	--	--		
	2/2/05	20,000	<2.5	1.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	5/6/05	13,000	<2.5	0.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	8/1/05	4,400	1.2	1.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	11/1/05	1,100	0.68	3.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	2/6/06	16,000	2.1	0.80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	5/2/06	15,000	<2.5	0.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		

**Table 3**  
**INTRINSIC BIOREMEDIAL DATA**  
 Elliott's Service Center  
 761 Eel River Drive, Loleta, CA  
 Blue Rock Project No. NC-002

Well No.	Date	TPHg (µg/L)	MTBE (µg/L)	D.O.* (mg/L)	Eh* (mV)	Temp (C)	pH*	Total				Ortho Phosphate		Ferrous Iron		Heterotrophic Plate Count		Aerobic Hydrocarbon Degraders		Anaerobic Hydrocarbon Degraders	
								Alkalinity (mg/L)	Nitrate (mg/L)	Ammonia (mg/L)	Sulfate (mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(CFU/mL)	(CFU/mL)	(CFU/mL)	(CFU/mL)		
MW-5	5/8/02	<50	1.2	0.98	97	18.2	6.7	22	19	0.14	3.5	<0.5	<0.1	3.4	--	<3	2,000	130	1,000		
	8/14/02	<50	1.8	4.20	237	15.3	6.7	26	17	<0.10	3.4	--	<0.1	<2	<10	<3	200	60	70		
	11/13/02	<50	1.7	2.37	190	16.1	5.7	23	16	0.12	3.6	--	<0.1	2.2	47	<3	400,000	20	2,000		
	2/25/03	<50	0.93	1.47	225	13.3	6.9	--	--	--	--	--	--	--	--	--	--	--	--		
	5/9/03	<50	1.5	1.21	40	14.9	5.7	--	--	--	--	--	--	--	--	--	--	--	--		
	8/18/03	<50	0.91	1.22	287	15.8	5.9	--	--	--	--	--	--	--	--	--	--	--	--		
	11/7/03	<50	1.3	1.29	292	17.1	5.9	--	--	--	--	--	--	--	--	--	--	--	--		
	2/11/04	<50	1.2	--	--	15.4	6.2	--	--	--	--	--	--	--	--	--	--	--	--		
	5/4/04	<50	0.6	2.94	--	16.9	6.0	--	--	--	--	--	--	--	--	--	--	--	--		
	7/27/04	<50	1.6	1.44	--	16.0	5.6	--	--	--	--	--	--	--	--	--	--	--	--		
	11/5/04	--	--	1.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	2/2/05	<50	0.73	1.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	8/1/05	<50	1.5	5.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	11/1/05	--	--	5.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	2/6/06	<50	1.6	6.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	5/2/06	--	--	4.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-6	5/8/02	<50	1.2	1.20	93	18.0	6.7	--	--	--	--	--	--	--	--	--	--	--	--		
	8/14/02	<50	1.7	4.49	233	15.7	6.8	--	--	--	--	--	--	--	--	--	--	--	--		
	11/13/02	<50	2.7	2.26	186	15.4	5.8	--	--	--	--	--	--	--	--	--	--	--	--		
	2/25/03	<50	1.4	1.61	225	13.4	6.9	--	--	--	--	--	--	--	--	--	--	--	--		
	5/9/03	<50	0.85	1.27	38	15.0	5.9	--	--	--	--	--	--	--	--	--	--	--	--		
	8/18/03	<50	0.72	1.14	336	16.6	6.0	--	--	--	--	--	--	--	--	--	--	--	--		
	11/7/03	<50	0.96	1.16	265	16.8	5.9	--	--	--	--	--	--	--	--	--	--	--	--		
	2/11/04	<50	2.3	--	--	15.1	6.2	--	--	--	--	--	--	--	--	--	--	--	--		
	5/4/04	<50	<0.5	2.96	--	15.2	6.5	--	--	--	--	--	--	--	--	--	--	--	--		
	7/27/04	<50	1.3	1.53	--	16.0	5.8	--	--	--	--	--	--	--	--	--	--	--	--		
	11/5/04	--	--	1.39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	2/2/05	<50	<0.5	1.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	8/1/05	<50	<0.5	6.62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	11/1/05	--	--	5.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	2/6/06	<50	<0.5	5.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	5/2/06	--	--	4.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-7	5/8/02	<50	2	0.97	208	18.2	6.6	34	18	0.16	3.8	<0.5	<0.1	2.8	--	<3	30,000	1,000	30,000		
	8/14/02	<50	1.3	4.47	244	15.8	6.7	33	19	<0.10	3.2	--	<0.1	<2	<10	<3	10,000	1,000	7,000		
	11/13/02	<50	0.93	2.83	219	15.8	5.6	24	19	0.21	3.1	--	<0.1	4.0	14	<3	2,000	20	1,000		
	2/25/03	<50	1.0	1.55	232	13.4	6.9	--	--	--	--	--	--	--	--	--	--	--	--		
	5/9/03	<50	0.81	1.19	39	14.7	6.0	--	--	--	--	--	--	--	--	--	--	--	--		
	8/18/03	<50	1.2	1.19	330	15.8	5.9	--	--	--	--	--	--	--	--	--	--	--	--		
	11/7/03	<50	<0.5	1.20	217	16.1	6.5	--	--	--	--	--	--	--	--	--	--	--	--		
	2/11/04	<50	<0.5	--	--	15.2	6.3	--	--	--	--	--	--	--	--	--	--	--	--		
	5/4/04	<50	<0.5	2.98	--	15.2	6.0	--	--	--	--	--	--	--	--	--	--	--	--		
	7/27/04	<50	<0.5	1.64	--	16.0	6.0	--	--	--	--	--	--	--	--	--	--	--	--		
	11/5/04	--	--	1.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	2/2/05	<50	<0.5	1.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	8/1/05	<50	<0.5	3.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	11/1/05	--	--	4.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	2/6/06	<50	<0.5	6.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	5/2/06	--	--	4.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-8	5/8/02	<50	<0.5	0.99	126	17.5	6.6	32	20	0.11	4.3	<0.5	<0.1	4.9	--	<3	2,000	100	10,000		
	8/14/02	<50	0.63	4.17	213	15.7	6.8	--	--	--	--	--	--	--	--	--	--	--	--		
	11/13/02	<50	0.57	3.77	258	14.3	5.3	--	--	--	--	--	--	--	--	--	--	--	--		
	2/25/03	<50	<0.5	1.29	229	13.3	6.9	--	--	--	--	--	--	--	--	--	--	--	--		
	5/9/03	<50	0.6	1.09	37	14.9	6.1	--	--	--	--	--	--	--	--	--	--	--	--		
	8/18/03	<50	<0.5	1.09	334	16.8	5.9	--	--	--	--	--	--	--	--	--	--	--	--		
	11/7/03	<50	<0.5	1.19	267	16.4	6.0	--	--	--	--	--	--	--	--	--	--	--	--		
	2/11/04	<50	<0.5	--	--	15.7	6.3	--	--	--	--	--	--	--	--	--	--	--	--		
	5/4/04	<50	<0.5	2.70	--	15.5	6.4	--	--	--	--	--	--	--	--	--	--	--	--		
	7/27/04	--	--	1.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	11/5/04	--	--	1.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	2/2/05	--	--	1.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	8/1/05	--	--	5.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	11/1/05	--	--	6.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	2/6/06	<50	<0.5	6.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	5/2/06	--	--	4.86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		

**Table 3**  
**INTRINSIC BIOREMEDIAL DATA**  
 Elliott's Service Center  
 761 Eel River Drive, Loleta, CA  
 Blue Rock Project No. NC-002

Well No.	Date	TPHg ( $\mu\text{g/L}$ )	MTBE ( $\mu\text{g/L}$ )	D.O.* (mg/L)	Eh† (mV)	Temp (C)	pH‡	Total			Ortho Phosphate (mg/L)	Ferrous Iron (mg/L)	TOC (mg/L)	COD (mg/L)	BOD (mg/L)	Heterotrophic Plate Count (CFU/mL)	Aerobic Hydrocarbon Degraders (CFU/mL)	Anaerobic Hydrocarbon Degraders (CFU/mL)
								Alkalinity (mg/L)	Nitrate (mg/L)	Ammonia (mg/L)								
MW-9	7/27/04	150	0.68	1.87	--	16.0	5.6	--	--	--	--	--	--	--	--	--	--	
	11/5/04	140	0.81	1.71	--	15.7	6.0	--	--	--	--	--	--	--	--	--	--	
	2/2/05	440	7.9	1.60	--	--	--	--	--	--	--	--	--	--	--	--	--	
	5/6/05	1,800	12	2.25	--	--	--	--	--	--	--	--	--	--	--	--	--	
	8/1/05	550	1.3	3.61	--	--	--	--	--	--	--	--	--	--	--	--	--	
	11/1/05	440	3.7	5.11	--	--	--	--	--	--	--	--	--	--	--	--	--	
	2/6/06	1,100	6.9	1.95	--	--	--	--	--	--	--	--	--	--	--	--	--	
	5/2/06	1,500	4.9	1.96	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	7/27/04	84	<0.5	1.91	--	16.0	5.7	--	--	--	--	--	--	--	--	--	--	
	11/5/04	1,200	<0.5	1.83	--	15.6	5.9	--	--	--	--	--	--	--	--	--	--	
	2/2/05	180	<0.5	1.61	--	--	--	--	--	--	--	--	--	--	--	--	--	
	5/6/05	140	<0.5	5.85	--	--	--	--	--	--	--	--	--	--	--	--	--	
	8/1/05	180	<0.5	6.19	--	--	--	--	--	--	--	--	--	--	--	--	--	
	11/1/05	160	<0.5	4.23	--	--	--	--	--	--	--	--	--	--	--	--	--	
	2/6/06	200	<0.5	6.87	--	--	--	--	--	--	--	--	--	--	--	--	--	
	5/2/06	140	<0.5	5.97	--	--	--	--	--	--	--	--	--	--	--	--	--	

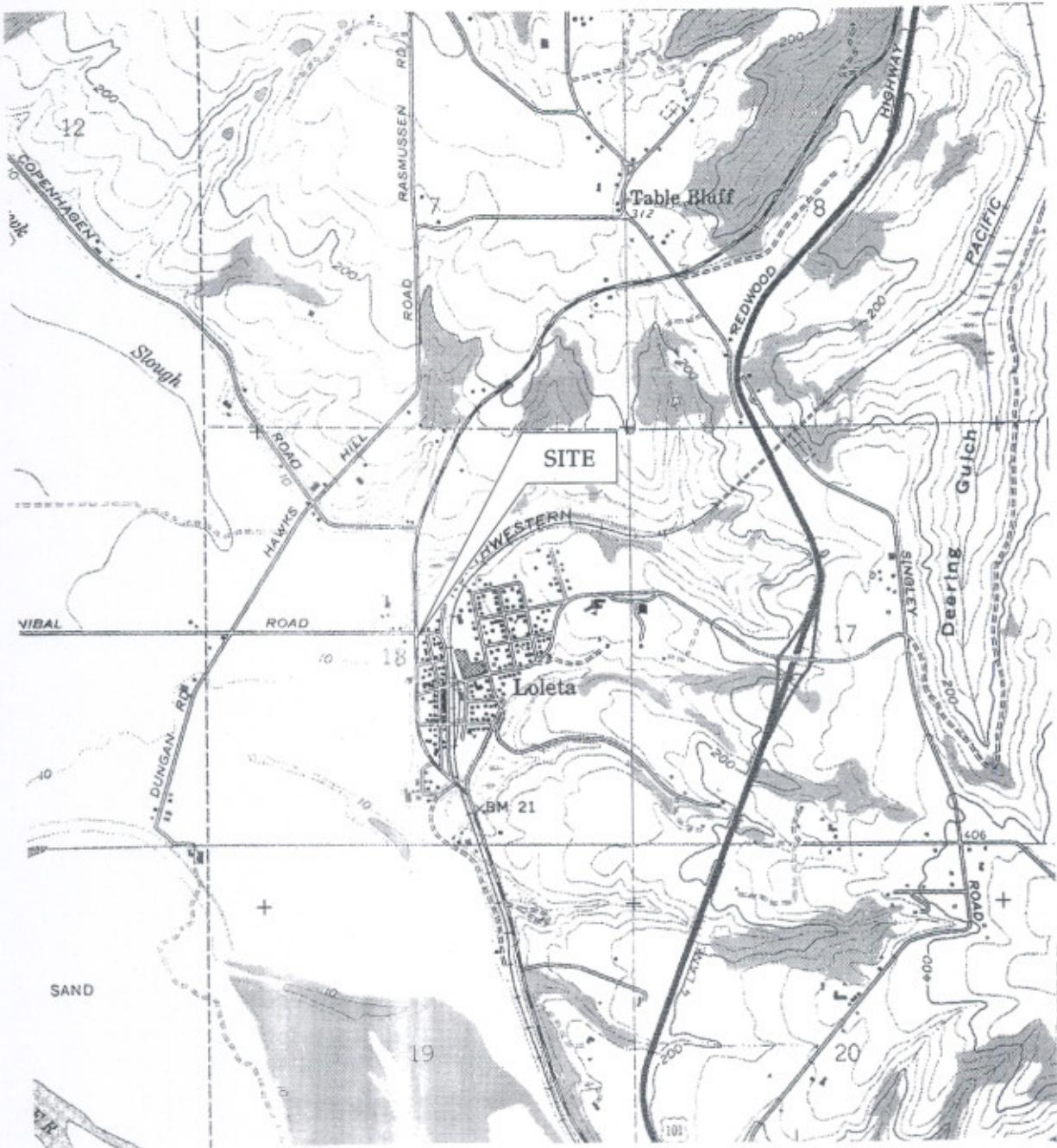
**Notes**

TPHg	Total petroleum hydrocarbons as gasoline by EPAM 5030/8260B	Ammonia	by EPA Method 350.2
MTBE	Methyl tertiary butyl ether by EPA Method 8260B	Sulfate	by EPA Method 375.4
$\mu\text{g/L}$	micrograms per liter	Phosphate	by EPA Method 365.2
mg/L	milligrams per liter	TOC	Total Organic Carbon by EPA Method 415.2
*	Parameters measured in field and recorded on field sheets	Ferrous Iron	by Standard Method 3500
mV	Millivolts	BOD	Biological Oxygen Demand by EPA Method 405.1
CFU/mL	Colony forming units per milliliter	Heterotrophic	
D.O.	Dissolved oxygen measured with downhole meter	Plate Count	Bacteria enumeration assay by Standard Method 9215B modified
Eh	Reduction-oxidation potential measured with downhole meter	Hydrocarbon	
pH	pH measured with field meter	Degraders	Bacteria enumeration assay for diesel and gasoline degraders
Alkalinity	by EPA Method 310.1	"--"	Not analyzed, available, or applicable
Nitrate	by EPA Method 353.3	<###	Not detected above the number indicated

**Table 4**  
**GROUNDWATER MONITORING SCHEDULE**  
Elliott's Service Center  
761 Eel River Drive, Loleta, CA  
Blue Rock Project # NC-002

Well	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Notes
MW-1	X		X	X	Nearly ND well
MW-2	X	X	X	X	Impacted well
MW-3	X				ND well
MW-4	X	X	X	X	Impacted well
MW-5	X		X		Nearly ND well
MW-6	X		X		Nearly ND well
MW-7	X		X		ND well
MW-8	X				ND well
MW-9	X	X	X	X	Impacted well
MW-10	X	X	X	X	Nearly ND well

Samples from all monitoring wells will be analyzed for TPHg, BTEX and MTBE by EPA Method 8260B.



SCALE 1:24000

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 5 0 1 KILOMETER

CONTOUR INTERVAL 40 FEET

MAP SOURCE: USGS Fields Landing, CA  
Quadrangle



## Site Location Map

Former Elliott's Service Center  
761 Eel River Drive  
Loleta, California

 BLUE ROCK  
ENVIRONMENTAL, INC.

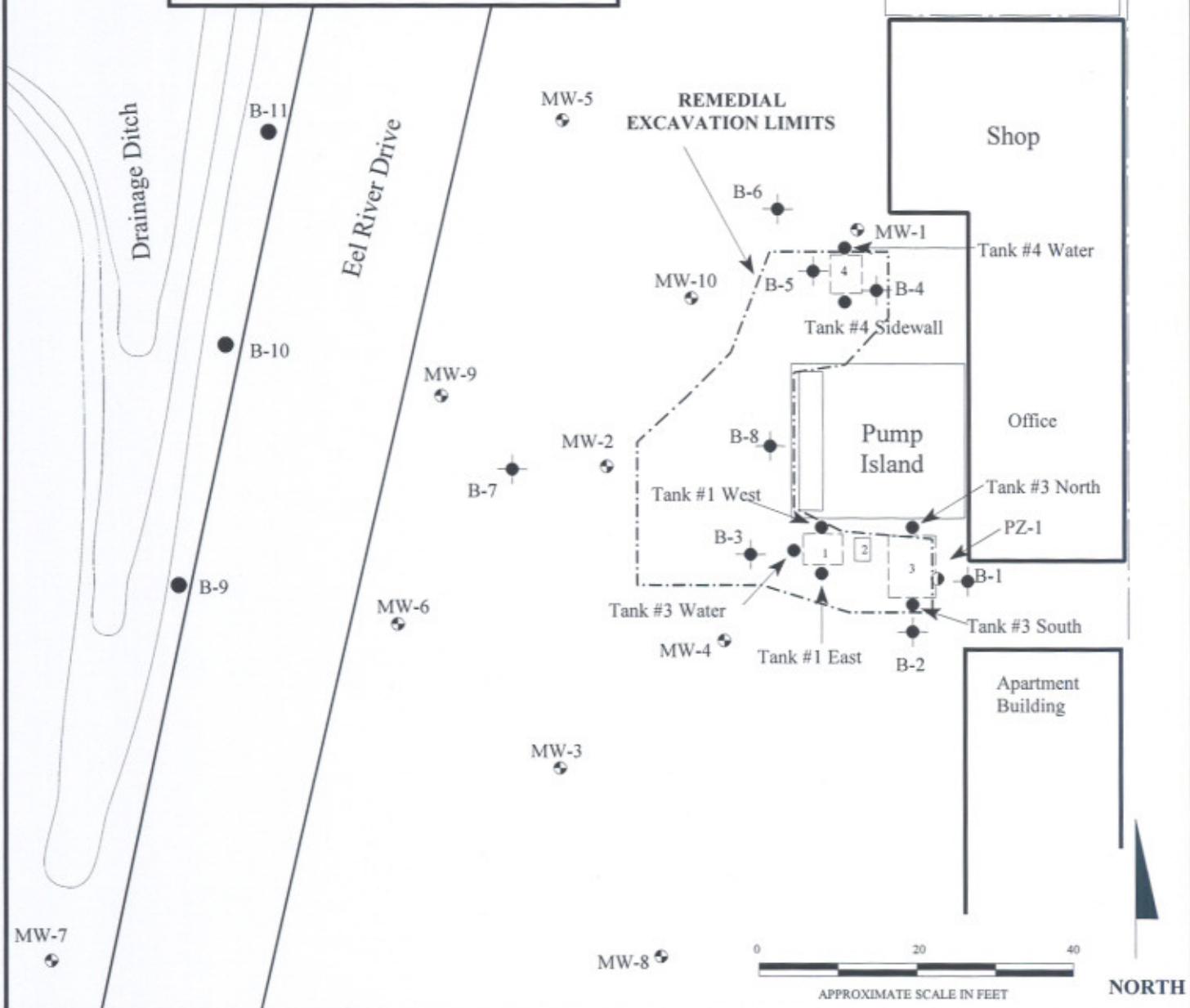
Project No.  
NC-002

Date  
5/04

Figure  
1

## EXPLANATION

- |  |   |
|--|---|
|  | 1. 1,000-gallon gasoline UST<br>2. 250-gallon unknown UST<br>3. 2,000-gallon gasoline UST<br>4. 550-gallon diesel UST |
|  | Monitoring well   |
|  | Piezometer well   |
|  | Soil boring (11/96 & 12/96)   |
|  | UST removal samples (12/89)   |
|  | Soil Boring Location 6/05   |
- 5,000-gallon gasoline AST



## Site Plan

Elliott's Service Center  
761 Eel River Drive  
Loleta, California



BLUE ROCK  
ENVIRONMENTAL, INC.

Project No.  
NC-002

Report Date  
5/06

Figure  
2

## **EXPLANATION**

1  
Former UST

1. 1,000-gallon gasoline UST
  2. 250-gallon unknown UST
  3. 2,000-gallon gasoline UST
  4. 550-gallon diesel UST

MW-1  
(20.47)

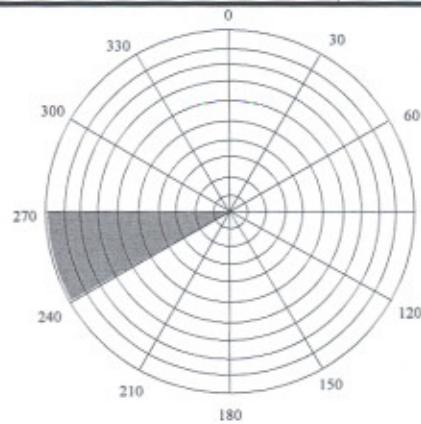
Monitoring well and ground water elevation in feet above mean sea level.

19.0

Groundwater elevation  
contour in feet

1

Approximate groundwater flow direction and gradient



**ROSE DIAGRAM OF  
GROUNDWATER FLOW DIRECTION  
FROM 3.04 TO 5.06**

### Drainage Ditch

Eel River Drive

MW-5

MW-9  
(19.65)

MV  
(19.)

MW-6  
(19.57)

•  
MW-3  
(19.92)

MW-1  
(20-30)

Pump  
Island

Shop

## Office

Apartment  
Building

MW-7  
(17.61)

18.0      18.5      /      19.0

**ter E elevations and G**  
Elliott's Service Center  
761 Eel River Drive  
Loleta, California

1

A D D R O N I M A T E S C A L E I N F E E T



BLUE ROCK  
ENVIRONMENTAL, INC.

Project No.  
NC-2

Report Date  
5/06

Figure  
3

### EXPLANATION

- 1. 1,000-gallon gasoline UST
  - 2. 250-gallon unknown UST
  - 3. 2,000-gallon gasoline UST
  - 4. 550-gallon diesel UST
- Former UST

● Monitoring well sample on 5/2/06

● Soil boring with grab groundwater sample on 6/28/05  
Groundwater analytical results. TPHg

TPHd <50  
TPHg <50  
B <0.5  
MTBE <0.5

(Total Petroleum Hydrocarbons as gasoline and diesel, benzene (B), and methyl tertiary butyl ether (MTBE) by EPA Method 5030/8260B. All results in  $\mu\text{g/L}$ . # indicates non-detect above instrument detection limit. Concentrations with \* are from most recent sampling events.

$\mu\text{g/L}$  = micrograms per liter

5,000-gallon gasoline AST

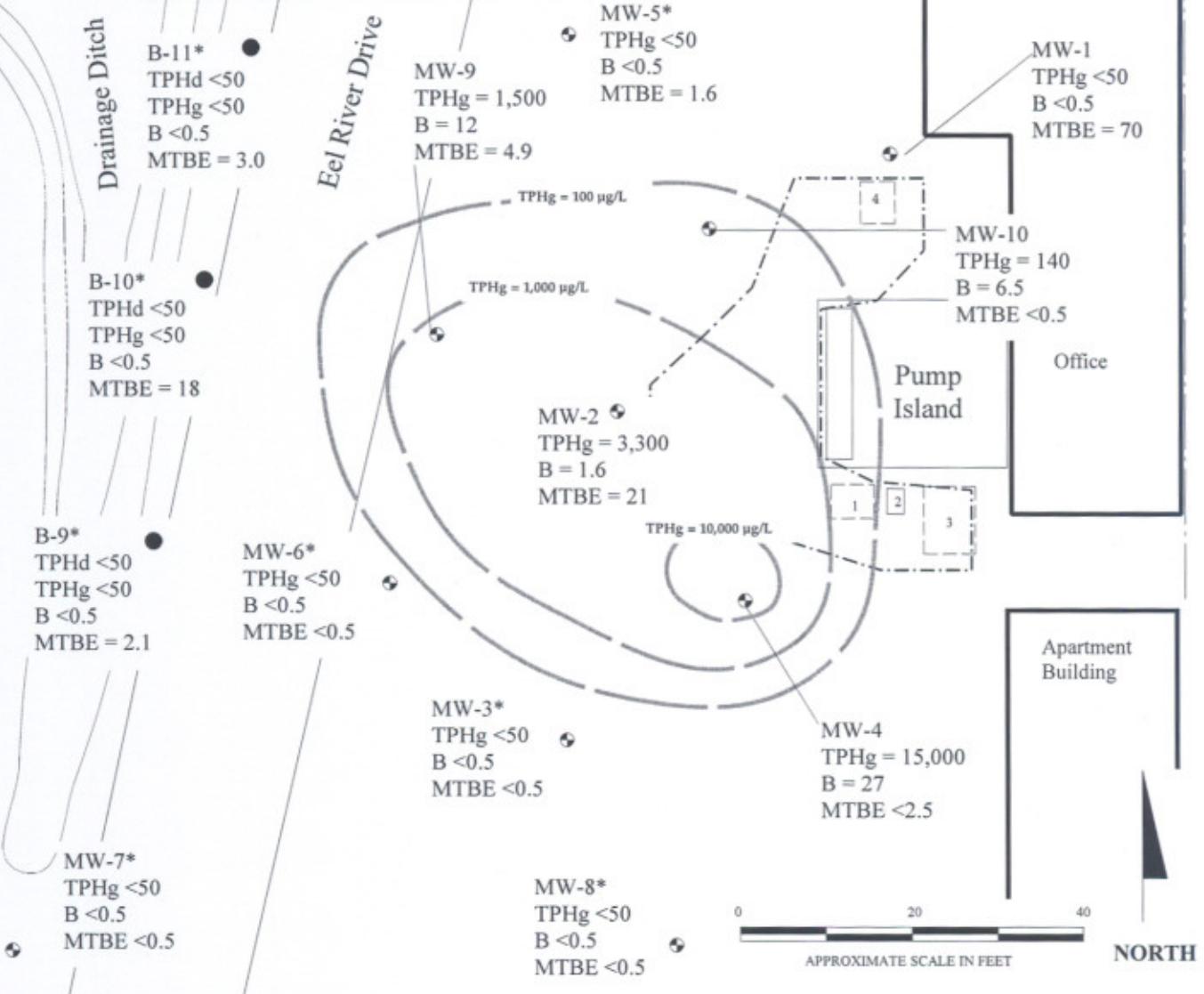


Shop

MW-1  
TPHg <50  
B <0.5  
MTBE = 70

Office

Apartment Building



### Dissolved-Phase TPHg Distribution Map - 5/2/06

Elliott's Service Center

761 Eel River Drive  
Loleta, California



BLUE ROCK  
ENVIRONMENTAL, INC.

Project No.  
NC-2

Report Date  
5/06

Figure  
4a

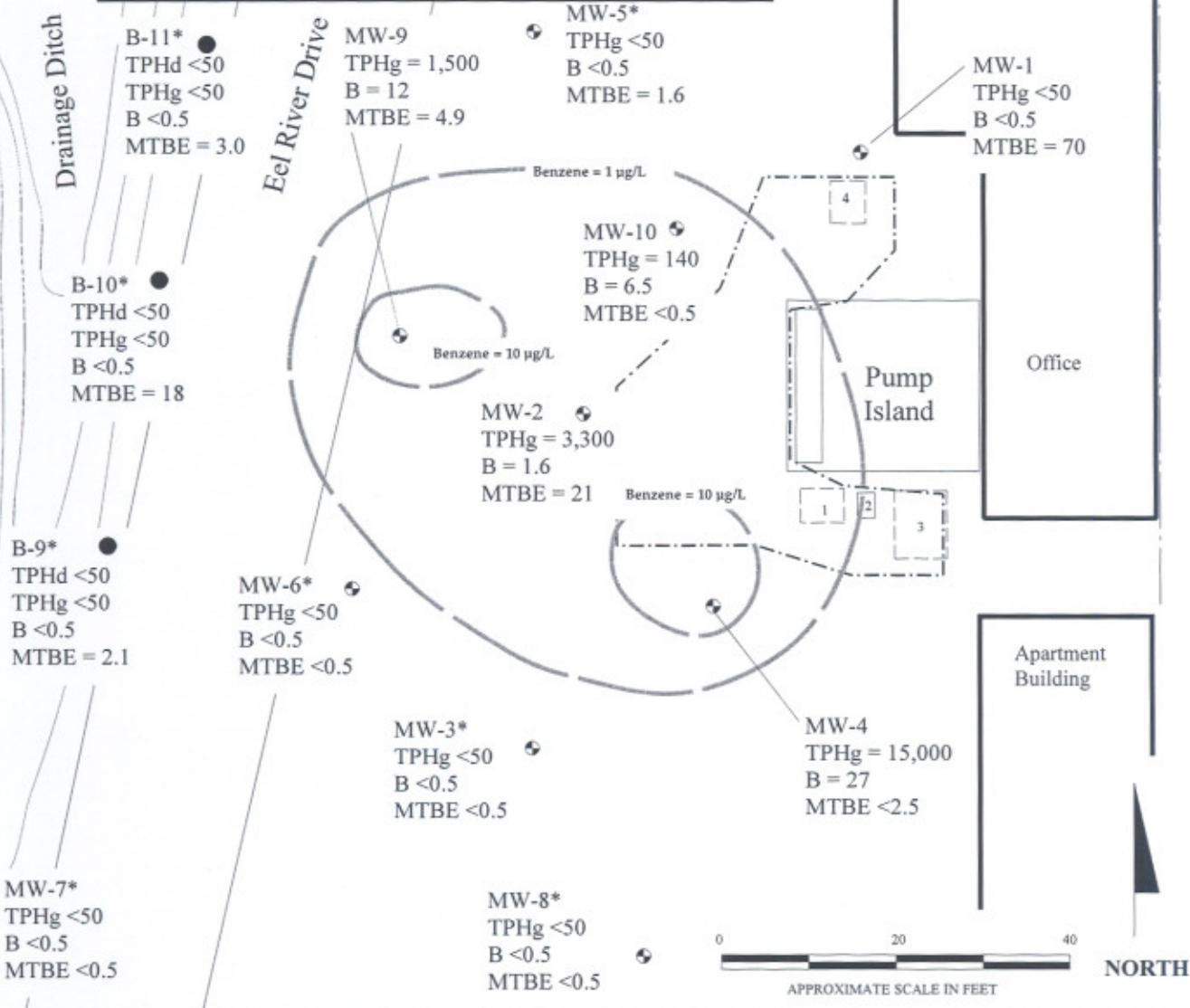
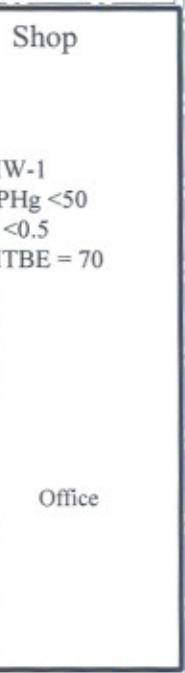
## EXPLANATION

- Former UST  
 1. 1,000-gallon gasoline UST  
 2. 250-gallon unknown UST  
 3. 2,000-gallon gasoline UST  
 4. 550-gallon diesel UST

● Monitoring well sample on 2/6/06  
● Soil boring with grab groundwater sample on 6/28/05  
 Groundwater analytical results. TPHg  
 (Total Petroleum Hydrocarbons as gasoline  
 and diesel, benzene (B), and methyl tertiary  
 butyl ether (MTBE) by EPA Method  
 5030/8260B. All results in  $\mu\text{g/L}$ . <#  
 indicates non-detect above instrument  
 detection limit. Concentrations with \* are from most  
 recent sampling events.

$\mu\text{g/L}$  = micrograms per liter

5,000-gallon gasoline AST



### Dissolved-Phase Benzene Distribution Map - 5/2/06

Elliott's Service Center

761 Eel River Drive  
 Loleta, California



**BLUE ROCK**  
**ENVIRONMENTAL, INC.**

Project No.  
 NC-002

Report Date  
 5/06

Figure  
 4b

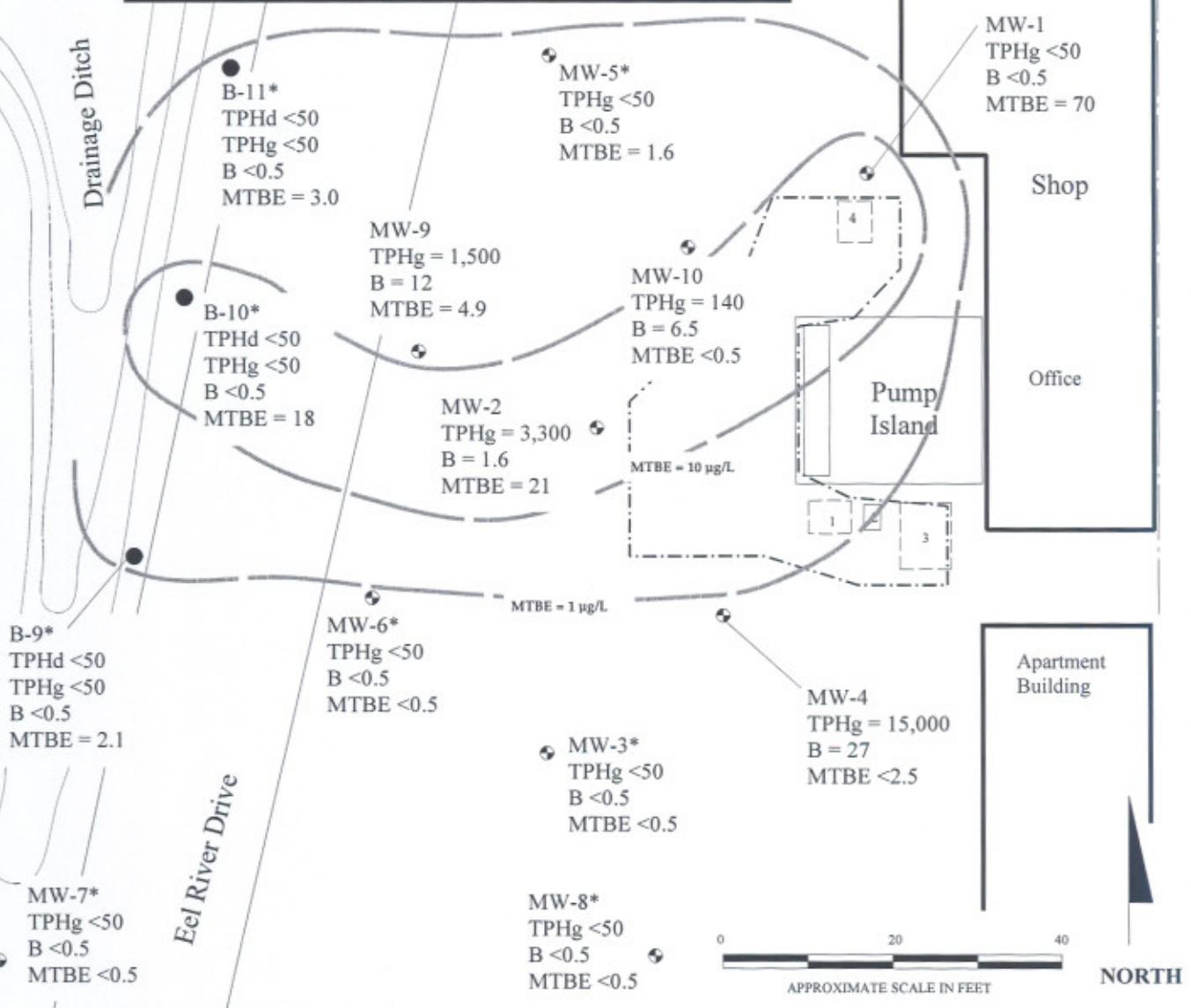
## EXPLANATION

- 1. 1,000-gallon gasoline UST
  - 2. 250-gallon unknown UST
  - 3. 2,000-gallon gasoline UST
  - 4. 550-gallon diesel UST
- Former UST**

● Monitoring well sample on 2/6/06  
 ● Soil boring with grab groundwater sample on 6/28/05  
 Groundwater analytical results. TPHg (Total Petroleum Hydrocarbons as gasoline and diesel, benzene (B), and methyl tertiary butyl ether (MTBE) by EPA Method 5030/8260B. All results in  $\mu\text{g/L}$ . <# indicates non-detect above instrument detection limit. Concentrations with \* are from most recent sampling events.

$\mu\text{g/L}$  = micrograms per liter

5,000-gallon gasoline AST



Dissolved-Phase MTBE Distribution Map - 5/2/06

Elliott's Service Center

761 Eel River Drive

Loleta, California



**BLUE ROCK**  
**ENVIRONMENTAL, INC.**

Project No.  
NC-002

Report Date  
5/06

Figure  
4c

## DAILY FIELD REPORT

PAGE \_\_\_\_\_ OF \_\_\_\_\_

Project Number: NC-2

Date: 5/2/06

Site Name: Elliotts

**Field Personnel:** James Linderman

Site Address: 761 Eel River Dr. Lololet CA Proj. Manager Scott Ferriman

Proj. Manager Scott Ferriman

Scope of work ZQT06 GWS

Drum Inventory Soil: Water:  $1 + \frac{1}{2}$  Free product:

**Additional Comments:**

## **GAGING DATA/PURGE CALCULATIONS**

Job No.: NC-2 Location: 761 Eel River Dr. Loloeta Date: 5/2/06 Tech(s): JL

#### **Explanation:**

DIA. = Well Diameter

DTB = Depth to Bottom

DTW = Depth to Water

ST = Saturated Thickness (DTB-DTW)

CV = Casing Volume (ST x cf)

PV = Purge Volume (standard 3 x CV,  
well development 10 x CV)

SPH = Thickness of Separate Phase Hydrocarbons

#### Conversion Factors (cf):

2 in. dia. well cf = 0.16 gal./ft.

4 in. dia. well cf = 0.65 gal./ft.

6 in. dia. well cf = 1.44 gal./ft.



BLUE ROCK  
ENVIRONMENTAL, INC.

## PURGING DATA

SHEET 1 OF 2

Job No.: NC-2 Location: 761 Eel River Dr. Date: 5/2/06 Tech: JL

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
MW-1			---	---	---	Sample for:
Calc. purge	9:45	0.25	276	56.1	6.07	TPHg TPHd 8260
volume	9:50	2.75	254	56.8	6.07	BTEX MTBE Metals
4.59	9:55	4.60	197	57.1	6.03	Purging Method: PVC bailer / Pump
COMMENTS: color, turbidity, recharge, sheen						Sampling Method: Dedicated / Disposable bailer
<i>clear/mod/mod/no sheen/no odor</i>						Sample at: 10:00

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
MW-2			---	---	---	Sample for:
Calc. purge	10:05	0.25	330	56.7	5.98	TPHg TPHd 8260
volume	10:10	2.75	360	57.0	6.19	BTEX MTBE Metals
5.16	10:15	5.15	367	57.0	6.20	Purging Method: PVC bailer / Pump
COMMENTS: color, turbidity, recharge, sheen						Sampling Method: Dedicated / Disposable bailer
<i>clear/mod/mod/no sheen/odor</i>						Sample at: 10:20

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
MW-4			---	---	---	Sample for:
Calc. purge	10:25	0.25	366	57.9	6.12	TPHg TPHd 8260
volume	10:30	2.25	383	57.4	6.09	BTEX MTBE Metals
3.99	10:35	4.00	380	57.5	6.11	Purging Method: PVC bailer / Pump
COMMENTS: color, turbidity, recharge, sheen						Sampling Method: Dedicated / Disposable bailer
<i>clear/mod/mod/no sheen/odor</i>						Sample at: 10:40

## PURGING DATA

SHEET 2 OF 2

Job No.: NC-2 Location: 761 Eel River Dr. Date: 5/2/06 Tech: J.L.

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
MW-9			---	---	---	Sample for:
Calc. purge volume	10:45	0.25	470	58.0	6.17	TPHg TPHd 8260
	10:50	3.50	373	57.9	6.09	BTEX MTBE Metals
7.32	10:55	7.35	290	57.9	6.18	Purging Method:
						PVC bailer / Pump
COMMENTS: color, turbidity, recharge, sheen						Sampling Method:
<i>clear/mod/mod/no sheen/odor</i>						Dedicated / Disposable bailer
						Sample at: 11:00

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
MW-10			---	---	---	Sample for:
Calc. purge volume	11:05	0.25	132	58.1	5.89	TPHg TPHd 8260
	11:10	4.00	128	58.5	5.86	BTEX MTBE Metals
7.92	11:15	8.00	128	58.5	5.87	Purging Method:
						PVC bailer / Pump
COMMENTS: color, turbidity, recharge, sheen						Sampling Method:
<i>clear/mod/mod/no sheen/no odor</i>						Dedicated / Disposable bailer
						Sample at: 11:20

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
			---	---	---	Sample for:
Calc. purge volume						TPHg TPHd 8260
						BTEX MTBE Metals
						Purging Method:
						PVC bailer / Pump
COMMENTS: color, turbidity, recharge, sheen						Sampling Method:
						Dedicated / Disposable bailer
						Sample at:



Report Number : 49806  
Date : 5/8/2006

Scott Ferriman  
Blue Rock Environmental, Inc.  
535 3rd Street, Suite 100  
Eureka, CA 95501

Subject : 5 Water Samples  
Project Name : Elliotts  
Project Number : NC-2

Dear Mr. Ferriman,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink that reads "Joel Kiff". The signature is fluid and cursive, with "Joel" on top and "Kiff" below it, separated by a small vertical line.



Report Number : 49806

Date : 5/8/2006

Project Name : Elliotts

Project Number : NC-2

Sample : MW-1

Matrix : Water

Lab Number : 49806-01

Sample Date : 5/2/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	5/4/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	5/4/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	5/4/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	5/4/2006
Methyl-t-butyl ether (MTBE)	70	0.50	ug/L	EPA 8260B	5/4/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	5/4/2006
Toluene - d8 (Surr)	99.1		% Recovery	EPA 8260B	5/4/2006
4-Bromofluorobenzene (Surr)	99.3		% Recovery	EPA 8260B	5/4/2006

Sample : MW-2

Matrix : Water

Lab Number : 49806-02

Sample Date : 5/2/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	1.6	0.90	ug/L	EPA 8260B	5/5/2006
Toluene	3.7	0.90	ug/L	EPA 8260B	5/5/2006
Ethylbenzene	120	0.90	ug/L	EPA 8260B	5/5/2006
Total Xylenes	270	0.90	ug/L	EPA 8260B	5/5/2006
Methyl-t-butyl ether (MTBE)	21	0.90	ug/L	EPA 8260B	5/5/2006
TPH as Gasoline	3300	90	ug/L	EPA 8260B	5/5/2006
Toluene - d8 (Surr)	106		% Recovery	EPA 8260B	5/5/2006
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	5/5/2006

Approved By:

Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 49806

Date : 5/8/2006

Project Name : Elliotts

Project Number : NC-2

Sample : MW-4

Matrix : Water

Lab Number : 49806-03

Sample Date : 5/2/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	27	2.5	ug/L	EPA 8260B	5/5/2006
Toluene	11	2.5	ug/L	EPA 8260B	5/5/2006
Ethylbenzene	940	2.5	ug/L	EPA 8260B	5/5/2006
Total Xylenes	830	2.5	ug/L	EPA 8260B	5/5/2006
Methyl-t-butyl ether (MTBE)	< 2.5	2.5	ug/L	EPA 8260B	5/6/2006
TPH as Gasoline	15000	250	ug/L	EPA 8260B	5/5/2006
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	5/5/2006
4-Bromofluorobenzene (Surr)	107		% Recovery	EPA 8260B	5/5/2006

Sample : MW-9

Matrix : Water

Lab Number : 49806-04

Sample Date : 5/2/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	12	0.50	ug/L	EPA 8260B	5/4/2006
Toluene	6.2	0.50	ug/L	EPA 8260B	5/4/2006
Ethylbenzene	49	0.50	ug/L	EPA 8260B	5/4/2006
Total Xylenes	170	0.50	ug/L	EPA 8260B	5/4/2006
Methyl-t-butyl ether (MTBE)	4.9	0.50	ug/L	EPA 8260B	5/4/2006
TPH as Gasoline	1500	50	ug/L	EPA 8260B	5/4/2006
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	5/4/2006
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	5/4/2006

Approved By:

Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 49806

Date : 5/8/2006

Project Name : Elliotts

Project Number : NC-2

Sample : MW-10

Matrix : Water

Lab Number : 49806-05

Sample Date : 5/2/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	6.5	0.50	ug/L	EPA 8260B	5/4/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	5/4/2006
Ethylbenzene	2.0	0.50	ug/L	EPA 8260B	5/4/2006
Total Xylenes	12	0.50	ug/L	EPA 8260B	5/4/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	5/4/2006
TPH as Gasoline	140	50	ug/L	EPA 8260B	5/4/2006
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	5/4/2006
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	5/4/2006

Approved By:

Joe Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

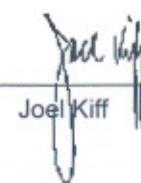
## QC Report : Method Blank Data

Project Name : Elliotts

Project Number : NC-2

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	5/4/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	5/4/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	5/4/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	5/4/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	5/4/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	5/4/2006
Toluene - d8 (Surrogate)	101		%	EPA 8260B	5/4/2006
4-Bromofluorobenzene (Surrogate)	100		%	EPA 8260B	5/4/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	5/5/2006
Benzene	< 0.50	0.50	ug/L	EPA 8260B	5/4/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	5/4/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	5/4/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	5/4/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	5/4/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	5/4/2006
Toluene - d8 (Surrogate)	99.4		%	EPA 8260B	5/4/2006
4-Bromofluorobenzene (Surrogate)	104		%	EPA 8260B	5/4/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed



Report Number : 49806

Date : 5/8/2006

## QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : Elliotts

Project Number : NC-2

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov.	Relative Percent Diff. Limit
Benzene	49781-05	<0.50	39.8	39.9	43.2	43.1	ug/L	EPA 8260B	5/4/06	109	108	0.542	70-130	25
Toluene	49781-05	<0.50	39.8	39.9	41.5	41.5	ug/L	EPA 8260B	5/4/06	104	104	0.403	70-130	25
Tert-Butanol	49781-05	<5.0	199	200	200	206	ug/L	EPA 8260B	5/4/06	101	103	2.28	70-130	25
Methyl-t-Butyl Ether	49781-05	170	39.8	39.9	198	201	ug/L	EPA 8260B	5/4/06	80.2	87.6	8.90	70-130	25
Benzene	49818-03	<0.50	39.9	39.8	42.6	42.9	ug/L	EPA 8260B	5/5/06	107	108	0.849	70-130	25
Toluene	49818-03	<0.50	39.9	39.8	41.1	40.8	ug/L	EPA 8260B	5/5/06	103	102	0.370	70-130	25
Tert-Butanol	49818-03	95	200	199	305	304	ug/L	EPA 8260B	5/5/06	105	105	0.252	70-130	25
Methyl-t-Butyl Ether	49818-03	<0.50	39.9	39.8	43.0	42.1	ug/L	EPA 8260B	5/5/06	108	106	1.88	70-130	25
Benzene	49818-04	<0.50	40.0	40.0	40.4	39.9	ug/L	EPA 8260B	5/4/06	101	99.8	1.27	70-130	25
Toluene	49818-04	<0.50	40.0	40.0	40.0	38.7	ug/L	EPA 8260B	5/4/06	100	96.8	3.32	70-130	25
Tert-Butanol	49818-04	<5.0	200	200	216	213	ug/L	EPA 8260B	5/4/06	108	107	1.40	70-130	25
Methyl-t-Butyl Ether	49818-04	<0.50	40.0	40.0	39.7	39.4	ug/L	EPA 8260B	5/4/06	99.3	98.4	0.901	70-130	25

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By: Joe Kiff



## QC Report : Laboratory Control Sample (LCS)

Report Number : 49806

Date : 5/8/2006

Project Name : Elliotts

Project Number : NC-2

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	5/4/06	109	70-130
Toluene	40.0	ug/L	EPA 8260B	5/4/06	106	70-130
Tert-Butanol	200	ug/L	EPA 8260B	5/4/06	104	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	5/4/06	111	70-130
Benzene	40.0	ug/L	EPA 8260B	5/5/06	110	70-130
Toluene	40.0	ug/L	EPA 8260B	5/5/06	106	70-130
Tert-Butanol	200	ug/L	EPA 8260B	5/5/06	102	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	5/5/06	105	70-130
Benzene	40.0	ug/L	EPA 8260B	5/4/06	98.3	70-130
Toluene	40.0	ug/L	EPA 8260B	5/4/06	99.4	70-130
Tert-Butanol	200	ug/L	EPA 8260B	5/4/06	104	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	5/4/06	100	70-130

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:

Joe Kiff





2795 2nd Street, Suite 300  
Davis, CA 95616  
Lab: 530.297.4800  
Fax: 530.297.4802

**SRG # / Lab No.**

49806

Page 1 of 1

Project Contact (Hardcopy or PDF To): <i>Scott Ferriman</i>			California EDF Report? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			Chain-of-Custody Record and Analysis Request																							
Company / Address: Blue Rock Env. Inc. 535 3rd St. Ste. 100 Eureka, CA			Sampling Company Log Code:																										
Phone #: <i>(707) 441-1934</i>	Fax #: <i>(707) 441-1949</i>	Global ID: <i>T0602300155</i>				Analysis Request																							
Project #: <i>NC-2</i>	P.O. #:	EDF Deliverable To (Email Address): <i>scott@bluerockenv.com</i>																											
Project Name: <i>Elliotts</i>			Sampler Signature: <i>James Linderman</i>																										
Project Address: <i>761 Eel River Dr. Loleta, CA 95551</i>		Sampling	Container		Preservative	Matrix																							
		Date	Time	40 ml VOA	Sleeve	Poly	Glass	Tedlar	HCl	HNO <sub>3</sub>	None	Water	Soil	Air	MTBE (EPA 8260B) per EPA 8021 level @ 5.0 ppb	MTBE (EPA 8260B) @ 0.5 ppb	BTEX (EPA 8260B)	TPH Gas (EPA 8260B)	5 Oxygenates (EPA 8260B)	7 Oxygenates (EPA 8260B)	Lead Scav. (1.2 DCA & 1.2 EDB-EPA 8260B)	Volatile Halocarbons (EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Volatile Organics (EPA 524.2 Drinking Water)	TPH as Diesel (EPA 8015M)	TPH as Motor Oil (EPA 8015M)	Total Lead (EPA 8010)	W.E.T. Lead (STLC)	TAT
Sample Designation																										<input type="checkbox"/> 12 hr			
MW-1		5/2/06	1000	3					X			X			X	X	X									<input type="checkbox"/> 24 hr			
MW-2			1020	1																						<input type="checkbox"/> 48 hr			
MW-4			1040	1																						<input type="checkbox"/> 72 hr			
MW-9			1100	1																						<input checked="" type="checkbox"/> 1 wk			
MW-10		↓	1120	↓					↓			↓			↓	↓	↓										<input checked="" type="checkbox"/> 01		
Relinquished by:		Date	Time	Received by:			Remarks:																						
<i>James Linderman</i>		5/2/06		<i>Fed Ex</i>																									
Relinquished by:		Date	Time	Received by:			Bill to:																						
Relinquished by:		Date	Time	Received by Laboratory:			For Lab Use Only: Sample Receipt																						
		050306	1232	<i>K. ft Analytical</i>			Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present																	
							2.9	APG	050306	1225	IR #1	Yes / No																	

Distribution: White - Lab; Pink - Originator